Countersinks for countersunk head screws
(except screws with DIN EN 27721 head)

ICS 21.060.01

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

In keeping with current practice 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

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 Counter sink 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

2004年2月6日

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.
3 Dimensions and designation

Countsink 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

![Diagram](image)

*Figure 1: Type A countersink dimensions (notation)*

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

Countsink DIN 74 – A4

<table>
<thead>
<tr>
<th>Table 1: Type A countersink dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thread size</td>
</tr>
<tr>
<td>(d_1) (H13)</td>
</tr>
<tr>
<td>(d_2) (H13)</td>
</tr>
<tr>
<td>(t_1) (approx.)</td>
</tr>
</tbody>
</table>

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

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

![Diagram](image)

*Figure 2: Type E countersink dimensions (notation)*

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

Countsink DIN 74 – E12
### Table 2: Type E countersink dimensions

<table>
<thead>
<tr>
<th>Thread size</th>
<th>10</th>
<th>12</th>
<th>16</th>
<th>20</th>
<th>22</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>$d_1$ (H13)</td>
<td>10,5</td>
<td>13</td>
<td>17</td>
<td>21</td>
<td>23</td>
<td>25</td>
</tr>
<tr>
<td>$d_2$ (H13)</td>
<td>19</td>
<td>24</td>
<td>31</td>
<td>34</td>
<td>37</td>
<td>40</td>
</tr>
<tr>
<td>$t_1$ (approx.)</td>
<td>5,5</td>
<td>7</td>
<td>9</td>
<td>11,5</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>$\alpha$</td>
<td>$\pm 1^\circ$</td>
<td>75°</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

#### 3.3 Type F, for hexagon socket countersunk head screws as in DIN EN ISO 10642

![Figure 3: Type F countersink dimensions (notation)](image)

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

Countersink DIN 74 – F12

### Table 3: Type F countersink dimensions

<table>
<thead>
<tr>
<th>Thread size</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>$d_1$ (H13)</td>
<td>3,4</td>
<td>4,5</td>
<td>5,5</td>
<td>6,6</td>
<td>9</td>
<td>11</td>
<td>13,5</td>
<td>15,5</td>
<td>17,5</td>
<td>22</td>
</tr>
<tr>
<td>$d_2$ (H13)</td>
<td>6,94</td>
<td>9,18</td>
<td>11,47</td>
<td>13,71</td>
<td>18,25</td>
<td>22,73</td>
<td>27,21</td>
<td>31,19</td>
<td>33,99</td>
<td>40,71</td>
</tr>
<tr>
<td>$t_1$ (approx.)</td>
<td>1,8</td>
<td>2,3</td>
<td>3,0</td>
<td>3,6</td>
<td>4,6</td>
<td>5,9</td>
<td>6,9</td>
<td>7,8</td>
<td>9,2</td>
<td>9,4</td>
</tr>
<tr>
<td>$\alpha$</td>
<td>$\pm 1^\circ$</td>
<td>90°</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

#### 3.4 Other depths of countersink

Where countersinks of depth, $t_1$, deviating from that given in tables 1 to 3 are required (e.g. 3 mm for an A4 countersink), this shall be indicated in the designation.

**EXAMPLE:**

Designation of a countersink of type A, with a depth, $t_1$, of 3 mm, for a 4 mm screw thread diameter:

Countersink DIN 74 – A4 x 3
4 Indications on drawings

Indications on drawings shall be as shown in figures 4a to 4d.

EXAMPLE 1: Use of symbols

![Figure 4a: Indication of symbols](image)

EXAMPLE 2: Indication of actual dimensions

![Figure 4b: Indication of countersink diameter](image)

![Figure 4c: Indication of countersink depth](image)

![Figure 4d: Indication for components where $s \leq t_1$](image)