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International Standard



7721

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION●MEXCHAPOCHAR OPFAHU3AUUR TIO CTAHCAPTU3AUUN●ORGANISATION INTERNATIONALE DE NORMALISATION

Countersunk head screws — Head configuration and gauging

Vis à tête fraisée - Configuration de la tête et vérification par calibre

Descriptors: fasteners, screws, countersunk head screws, dimensions.

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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 7721 was developed by Technical Committee ISO/TC 2, Fasteners, and was circulated to the member bodies in December 1981.

It has been approved by the member bodies of the following countries:

Australia Germany, F.R. New Zealand
Austria Hungary Norway
Belgium India Poland
Canada Ireland Romania
China Italy South Africa,

China Italy South Africa, Rep. of Czechoslovakia Japan Spain

Denmark Korea, Dem. P. Rep. of Sri Lanka
Egypt, Arab Rep. of Korea, Rep. of Sweden
Finland Mexico Switzerland
France Netherlands USA

The member body of the following country expressed disapproval of the document on technical grounds:

United Kingdom

Countersunk head screws — Head configuration and gauging

1 Scope and field of application

This International Standard specifies the characteristics of head configurations of slotted and recessed countersunk head screws, and recommends a gauging method for the head dimensions laid down in the respective product standards.

2 Head configuration

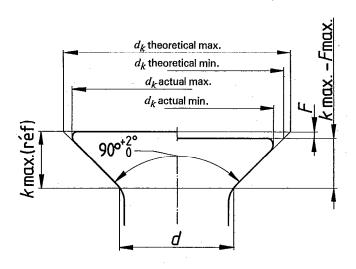


Table 1

Dimensions in millimetres

| Thread size, d | | metric | M 1,6 | M 2 | M 2,5 | M 3 | М 3,5 | M 4 | M 5 | - | M 6 | M 8 | M 10 | M 12 | M 14 | M 16 | M 18 | M 20 |
|----------------|-------------|---------|-------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|------|------|------|------|------|
| | | tapping | _ | ST 2,2 | - | ST 2,9 | ST 3,5 | ST 4,2 | ST 4,8 | ST 5,5 | ST 6,3 | ST 8 | ST 9,5 | _ | _ | - | _ | _ |
| d _k | theoretica | max. | 3,6 | 4,4 | 5,5 | 6,3 | 8,2 | 9,4 | 10,4 | 11,5 | 12,6 | 17,3 | 20 | 24 | 28 | 32 | 36 | 40 |
| | | min. | 3,3 | 4,1 | 5,1 | 5,9 | 7,7 | 8,9 | 9,8 | 10,9 | 11,9 | 16,5 | 19,2 | 23,1 | 27 | 30,8 | 34,7 | 38,5 |
| | actual | max. | 3 | 3,8 | 4,7 | 5,5 | 7,3 | 8,4 | 9,3 | 10,3 | 11,3 | 15,8 | 18,3 | 22 | 25,5 | 29 | 32,5 | 36 |
| | | min. | 2,7 | 3,5 | 4,4 | 5,2 | 6,9 | 8 | 8,9 | 9,9 | 10,9 | 15,4 | 17,8 | 21,5 | 25 | 28,5 | 31,9 | 35,4 |
| F | | max. | 0,15 | 0,15 | 0,2 | 0,2 | 0,25 | 0,25 | 0,3 | 0,3 | 0,35 | 0,4 | 0,4 | 0,45 | 0,5 | 0,6 | 0,65 | 0,75 |
| k ma | c. (ref.) – | metric | 1 | 1,2 | 1,5 | 1,65 | 2,35 | 2,7 | 2,7 | _ | 3,3 | 4,65 | 5 | 6 | 7 | 8 | 9 | 10 |
| K 11107 | | tapping | _ | 1,1 | _ | 1,7 | 2,35 | 2,6 | 2,8 | 3 | 3,15 | 4,65 | 5,25 | _ | | _ | _ | - |