

Douille de perçage et guidage • à collerette, DIN 172 A EH 23112.



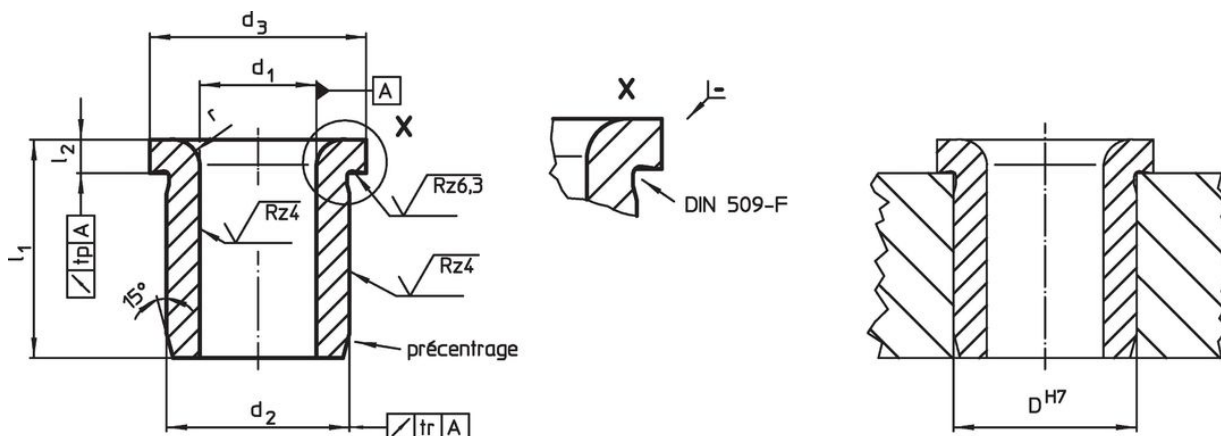
Description produit

Les douilles de perçages et guidage sont utilisés pour des guidages ou perçages répétitifs, et permettent une bonne répétabilité.
La dureté ainsi que la précision des douilles de perçage et guidage permettent une très bonne résistance lors du guidage de forets de perçage, arbres etc.

Matières


- acier de cémentation, cémenté


Plan



Informations détaillées

| Dimensions | | | | | | Alésage de positionnement D H7 | Réf. | Référence article |
|----------------------|----------------|----------------------|----------------|----------------|-----|--------------------------------------|------|----------------------------|
| d ₁ F7 | l ₁ | d ₂ n6 | d ₃ | l ₂ | r | | | |
| [mm] | | | | | | [mm] | | |
| 2,0 | 6 | 5 | 8 | 2,0 | 1,0 | 5 | 1,2 | 23112.0020 |
| 2,0 | 9 | 5 | 8 | 2,0 | 1,0 | 5 | 1,6 | 23112.0021 |
| 2,1 | 6 | 5 | 8 | 2,0 | 1,0 | 5 | 1,2 | 23112.0022 |
| 2,1 | 9 | 5 | 8 | 2,0 | 1,0 | 5 | 1,5 | 23112.0023 |
| 2,5 | 6 | 5 | 8 | 2,0 | 1,0 | 5 | 1,1 | 23112.0024 |
| 2,5 | 9 | 5 | 8 | 2,0 | 1,0 | 5 | 1,4 | 23112.0025 |
| 3,0 | 8 | 6 | 9 | 2,5 | 1,0 | 6 | 1,9 | 23112.0030 |
| 3,0 | 12 | 6 | 9 | 2,5 | 1,0 | 6 | 2,6 | 23112.0031 |
| 3,0 | 16 | 6 | 9 | 2,5 | 1,0 | 6 | 3,2 | 23112.0032 |
| 3,1 | 8 | 6 | 9 | 2,5 | 1,0 | 6 | 1,9 | 23112.0033 |
| 3,1 | 12 | 6 | 9 | 2,5 | 1,0 | 6 | 2,5 | 23112.0034 |
| 3,1 | 16 | 6 | 9 | 2,5 | 1,0 | 6 | 3,2 | 23112.0035 |
| 3,5 | 8 | 7 | 10 | 2,5 | 1,0 | 7 | 2,4 | 23112.0036 |
| 3,5 | 12 | 7 | 10 | 2,5 | 1,0 | 7 | 3,4 | 23112.0037 |
| 3,5 | 16 | 7 | 10 | 2,5 | 1,0 | 7 | 4,3 | 23112.0038 |
| 4,0 | 8 | 7 | 10 | 2,5 | 1,0 | 7 | 2,3 | 23112.0040 |
| 4,0 | 12 | 7 | 10 | 2,5 | 1,0 | 7 | 3,1 | 23112.0041 |
| 4,0 | 16 | 7 | 10 | 2,5 | 1,0 | 7 | 3,9 | 23112.0042 |
| 4,1 | 8 | 8 | 11 | 2,5 | 1,0 | 8 | 3,0 | 23112.0043 |
| 4,1 | 12 | 8 | 11 | 2,5 | 1,0 | 8 | 4,2 | 23112.0044 |
| 4,1 | 16 | 8 | 11 | 2,5 | 1,0 | 8 | 5,3 | 23112.0045 |
| 4,5 | 8 | 8 | 11 | 2,5 | 1,0 | 8 | 2,9 | 23112.0046 |
| 4,5 | 12 | 8 | 11 | 2,5 | 1,0 | 8 | 3,9 | 23112.0047 |
| 4,5 | 16 | 8 | 11 | 2,5 | 1,0 | 8 | 5,0 | 23112.0048 |
| 5,0 | 8 | 8 | 11 | 2,5 | 1,0 | 8 | 1,8 | 23112.0050 |
| 5,0 | 12 | 8 | 11 | 2,5 | 1,0 | 8 | 3,6 | 23112.0051 |
| 5,0 | 16 | 8 | 11 | 2,5 | 1,0 | 8 | 4,5 | 23112.0052 |

| d ₁ F7 | l ₁ | Dimensions | | | | r | Alésage de positionnement D H7 [mm] |  [g] | Référence article |
|----------------------|----------------|------------------------------|----------------|----------------|-----|----|--|--|----------------------|
| | | d ₂ n6 [mm] | d ₃ | l ₂ | | | | | |
| 5,1 | 10 | 10 | 13 | 3,0 | 1,5 | 10 | 5,5 | 23112.0053 | |
| 5,1 | 16 | 10 | 13 | 3,0 | 1,5 | 10 | 8,2 | 23112.0054 | |
| 5,1 | 20 | 10 | 13 | 3,0 | 1,5 | 10 | 10,0 | 23112.0055 | |
| 5,5 | 10 | 10 | 13 | 3,0 | 1,5 | 10 | 5,3 | 23112.0056 | |
| 5,5 | 16 | 10 | 13 | 3,0 | 1,5 | 10 | 7,9 | 23112.0057 | |
| 5,5 | 20 | 10 | 13 | 3,0 | 1,5 | 10 | 9,6 | 23112.0058 | |
| 6,0 | 10 | 10 | 13 | 3,0 | 1,5 | 10 | 4,9 | 23112.0060 | |
| 6,0 | 16 | 10 | 13 | 3,0 | 1,5 | 10 | 7,3 | 23112.0061 | |
| 6,0 | 20 | 10 | 13 | 3,0 | 1,5 | 10 | 8,8 | 23112.0062 | |
| 6,1 | 10 | 12 | 15 | 3,0 | 1,5 | 12 | 7,7 | 23112.0063 | |
| 6,1 | 16 | 12 | 15 | 3,0 | 1,5 | 12 | 12,0 | 23112.0064 | |
| 6,1 | 20 | 12 | 15 | 3,0 | 1,5 | 12 | 14,0 | 23112.0065 | |
| 6,5 | 10 | 12 | 15 | 3,0 | 1,5 | 12 | 7,4 | 23112.0066 | |
| 6,5 | 16 | 12 | 15 | 3,0 | 1,5 | 12 | 11,0 | 23112.0067 | |
| 6,5 | 20 | 12 | 15 | 3,0 | 1,5 | 12 | 14,0 | 23112.0068 | |
| 7,0 | 10 | 12 | 15 | 3,0 | 1,5 | 12 | 7,0 | 23112.0070 | |
| 7,0 | 16 | 12 | 15 | 3,0 | 1,5 | 12 | 10,0 | 23112.0071 | |
| 7,0 | 20 | 12 | 15 | 3,0 | 1,5 | 12 | 13,0 | 23112.0072 | |
| 7,1 | 10 | 12 | 15 | 3,0 | 1,5 | 12 | 6,9 | 23112.0073 | |
| 7,1 | 16 | 12 | 15 | 3,0 | 1,5 | 12 | 10,0 | 23112.0074 | |
| 7,1 | 20 | 12 | 15 | 3,0 | 1,5 | 12 | 13,0 | 23112.0075 | |
| 7,5 | 10 | 12 | 15 | 3,0 | 1,5 | 12 | 6,5 | 23112.0076 | |
| 7,5 | 16 | 12 | 15 | 3,0 | 1,5 | 12 | 9,7 | 23112.0077 | |
| 7,5 | 20 | 12 | 15 | 3,0 | 1,5 | 12 | 12,0 | 23112.0078 | |
| 8,0 | 10 | 12 | 15 | 3,0 | 1,5 | 12 | 6,0 | 23112.0080 | |
| 8,0 | 16 | 12 | 15 | 3,0 | 1,5 | 12 | 9,0 | 23112.0081 | |
| 8,0 | 20 | 12 | 15 | 3,0 | 1,5 | 12 | 11,0 | 23112.0082 | |
| 8,1 | 12 | 15 | 18 | 3,0 | 2,0 | 15 | 13,0 | 23112.0083 | |
| 8,1 | 20 | 15 | 18 | 3,0 | 2,0 | 15 | 25,0 | 23112.0084 | |
| 8,1 | 25 | 15 | 18 | 3,0 | 2,0 | 15 | 26,0 | 23112.0085 | |
| 8,5 | 12 | 15 | 18 | 3,0 | 2,0 | 15 | 13,0 | 23112.0086 | |
| 8,5 | 20 | 15 | 18 | 3,0 | 2,0 | 15 | 20,0 | 23112.0087 | |
| 8,5 | 25 | 15 | 18 | 3,0 | 2,0 | 15 | 25,0 | 23112.0088 | |
| 9,0 | 12 | 15 | 18 | 3,0 | 2,0 | 15 | 12,0 | 23112.0090 | |
| 9,0 | 20 | 15 | 18 | 3,0 | 2,0 | 15 | 19,0 | 23112.0091 | |
| 9,0 | 25 | 15 | 18 | 3,0 | 2,0 | 15 | 23,0 | 23112.0092 | |
| 9,1 | 12 | 15 | 18 | 3,0 | 2,0 | 15 | 12,0 | 23112.0093 | |
| 9,1 | 20 | 15 | 18 | 3,0 | 2,0 | 15 | 19,0 | 23112.0094 | |
| 9,1 | 25 | 15 | 18 | 3,0 | 2,0 | 15 | 23,0 | 23112.0095 | |
| 9,5 | 12 | 15 | 18 | 3,0 | 2,0 | 15 | 11,0 | 23112.0096 | |
| 9,5 | 20 | 15 | 18 | 3,0 | 2,0 | 15 | 18,0 | 23112.0097 | |
| 9,5 | 25 | 15 | 18 | 3,0 | 2,0 | 15 | 22,0 | 23112.0098 | |
| 10,0 | 12 | 15 | 18 | 3,0 | 2,0 | 15 | 10,0 | 23112.0100 | |
| 10,0 | 20 | 15 | 18 | 3,0 | 2,0 | 15 | 17,0 | 23112.0101 | |
| 10,0 | 25 | 15 | 18 | 3,0 | 2,0 | 15 | 20,0 | 23112.0102 | |
| 10,1 | 12 | 18 | 22 | 4,0 | 2,0 | 18 | 19,0 | 23112.0103 | |
| 10,1 | 20 | 18 | 22 | 4,0 | 2,0 | 18 | 30,0 | 23112.0104 | |
| 10,1 | 25 | 18 | 22 | 4,0 | 2,0 | 18 | 37,0 | 23112.0105 | |
| 10,5 | 12 | 18 | 22 | 4,0 | 2,0 | 18 | 19,0 | 23112.0106 | |
| 10,5 | 20 | 18 | 22 | 4,0 | 2,0 | 18 | 29,0 | 23112.0107 | |
| 10,5 | 25 | 18 | 22 | 4,0 | 2,0 | 18 | 36,0 | 23112.0108 | |
| 11,0 | 12 | 18 | 22 | 4,0 | 2,0 | 18 | 18,0 | 23112.0110 | |
| 11,0 | 20 | 18 | 22 | 4,0 | 2,0 | 18 | 28,0 | 23112.0111 | |
| 11,0 | 25 | 18 | 22 | 4,0 | 2,0 | 18 | 34,0 | 23112.0112 | |
| 11,1 | 12 | 18 | 22 | 4,0 | 2,0 | 18 | 18,0 | 23112.0113 | |
| 11,1 | 20 | 18 | 22 | 4,0 | 2,0 | 18 | 28,0 | 23112.0114 | |
| 11,1 | 25 | 18 | 22 | 4,0 | 2,0 | 18 | 34,0 | 23112.0115 | |
| 11,5 | 12 | 18 | 22 | 4,0 | 2,0 | 18 | 17,0 | 23112.0116 | |
| 11,5 | 20 | 18 | 22 | 4,0 | 2,0 | 18 | 26,0 | 23112.0117 | |
| 11,5 | 25 | 18 | 22 | 4,0 | 2,0 | 18 | 33,0 | 23112.0118 | |
| 12,0 | 12 | 18 | 22 | 4,0 | 2,0 | 18 | 16,0 | 23112.0120 | |

| d ₁ F7 | l ₁ | Dimensions | | | | r | Alésage de positionnement D H7 [mm] |  [g] | Référence article |
|----------------------|----------------|------------------------------|----------------|----------------|-----|----|--|--|----------------------|
| | | d ₂ n6 [mm] | d ₃ | l ₂ | | | | | |
| 12,0 | 20 | 18 | 22 | 4,0 | 2,0 | 18 | 25,0 | 23112.0121 | |
| 12,0 | 25 | 18 | 22 | 4,0 | 2,0 | 18 | 31,0 | 23112.0122 | |
| 12,1 | 16 | 22 | 26 | 4,0 | 2,0 | 22 | 37,0 | 23112.0123 | |
| 12,1 | 28 | 22 | 26 | 4,0 | 2,0 | 22 | 62,0 | 23112.0124 | |
| 12,1 | 36 | 22 | 26 | 4,0 | 2,0 | 22 | 78,0 | 23112.0125 | |
| 12,5 | 16 | 22 | 26 | 4,0 | 2,0 | 22 | 36,0 | 23112.0126 | |
| 12,5 | 28 | 22 | 26 | 4,0 | 2,0 | 22 | 60,0 | 23112.0127 | |
| 12,5 | 36 | 22 | 26 | 4,0 | 2,0 | 22 | 76,0 | 23112.0128 | |
| 13,0 | 16 | 22 | 26 | 4,0 | 2,0 | 22 | 34,0 | 23112.0130 | |
| 13,0 | 28 | 22 | 26 | 4,0 | 2,0 | 22 | 58,0 | 23112.0131 | |
| 13,0 | 36 | 22 | 26 | 4,0 | 2,0 | 22 | 73,0 | 23112.0132 | |
| 14,0 | 16 | 22 | 26 | 4,0 | 2,0 | 22 | 32,0 | 23112.0140 | |
| 14,0 | 28 | 22 | 26 | 4,0 | 2,0 | 22 | 198,0 | 23112.0141 | |
| 14,0 | 36 | 22 | 26 | 4,0 | 2,0 | 22 | 67,0 | 23112.0142 | |
| 15,0 | 16 | 22 | 26 | 4,0 | 2,0 | 22 | 29,0 | 23112.0150 | |
| 15,0 | 28 | 22 | 26 | 4,0 | 2,0 | 22 | 48,0 | 23112.0151 | |
| 15,0 | 36 | 22 | 26 | 4,0 | 2,0 | 22 | 61,0 | 23112.0152 | |
| 16,0 | 16 | 26 | 30 | 4,0 | 2,0 | 26 | 45,0 | 23112.0160 | |
| 16,0 | 28 | 26 | 30 | 4,0 | 2,0 | 26 | 76,0 | 23112.0161 | |
| 16,0 | 36 | 26 | 30 | 4,0 | 2,0 | 26 | 97,0 | 23112.0162 | |
| 16,1 | 16 | 26 | 30 | 4,0 | 2,0 | 26 | 45,0 | 23112.0163 | |
| 16,1 | 28 | 26 | 30 | 4,0 | 2,0 | 26 | 76,0 | 23112.0164 | |
| 16,1 | 36 | 26 | 30 | 4,0 | 2,0 | 26 | 96,0 | 23112.0165 | |
| 16,5 | 16 | 26 | 30 | 4,0 | 2,0 | 26 | 44,0 | 23112.0166 | |
| 16,5 | 28 | 26 | 30 | 4,0 | 2,0 | 26 | 73,0 | 23112.0167 | |
| 16,5 | 36 | 26 | 30 | 4,0 | 2,0 | 26 | 93,0 | 23112.0168 | |
| 17,0 | 16 | 26 | 30 | 4,0 | 2,0 | 26 | 42,0 | 23112.0171 | |
| 17,0 | 28 | 26 | 30 | 4,0 | 2,0 | 26 | 70,0 | 23112.0172 | |
| 17,0 | 36 | 26 | 30 | 4,0 | 2,0 | 26 | 89,0 | 23112.0173 | |
| 18,0 | 16 | 26 | 30 | 4,0 | 2,0 | 26 | 39,0 | 23112.0181 | |
| 18,0 | 28 | 26 | 30 | 4,0 | 2,0 | 26 | 64,0 | 23112.0182 | |
| 18,0 | 36 | 26 | 30 | 4,0 | 2,0 | 26 | 82,0 | 23112.0183 | |
| 19,0 | 20 | 30 | 34 | 5,0 | 3,0 | 30 | 71,0 | 23112.0191 | |
| 19,0 | 36 | 30 | 34 | 5,0 | 3,0 | 30 | 125,0 | 23112.0192 | |
| 19,0 | 45 | 30 | 34 | 5,0 | 3,0 | 30 | 154,0 | 23112.0193 | |
| 20,0 | 20 | 30 | 34 | 5,0 | 3,0 | 30 | 67,0 | 23112.0201 | |
| 20,0 | 36 | 30 | 34 | 5,0 | 3,0 | 30 | 117,0 | 23112.0202 | |
| 20,0 | 45 | 30 | 34 | 5,0 | 3,0 | 30 | 143,0 | 23112.0203 | |
| 20,1 | 20 | 30 | 34 | 5,0 | 3,0 | 30 | 66,0 | 23112.0204 | |
| 20,1 | 36 | 30 | 34 | 5,0 | 3,0 | 30 | 115,0 | 23112.0205 | |
| 20,1 | 45 | 30 | 34 | 5,0 | 3,0 | 30 | 142,0 | 23112.0206 | |
| 22,0 | 20 | 30 | 34 | 5,0 | 3,0 | 30 | 56,0 | 23112.0221 | |
| 22,0 | 36 | 30 | 34 | 5,0 | 3,0 | 30 | 96,0 | 23112.0222 | |
| 22,0 | 45 | 30 | 34 | 5,0 | 3,0 | 30 | 120,0 | 23112.0223 | |
| 25,0 | 20 | 35 | 39 | 5,0 | 3,0 | 35 | 80,0 | 23112.0251 | |
| 25,0 | 36 | 35 | 39 | 5,0 | 3,0 | 35 | 138,0 | 23112.0252 | |
| 25,0 | 45 | 35 | 39 | 5,0 | 3,0 | 35 | 171,0 | 23112.0253 | |
| 30,0 | 25 | 42 | 46 | 5,0 | 3,0 | 42 | 139,0 | 23112.0301 | |
| 30,0 | 45 | 42 | 46 | 5,0 | 3,0 | 42 | 245,0 | 23112.0302 | |
| 30,0 | 56 | 42 | 46 | 5,0 | 3,0 | 42 | 303,0 | 23112.0303 | |

Conformité

Conforme à la directive RoHS

Contient du plomb – Conforme selon les exceptions 6a / 6b / 6c.

Contient des substances SVHC >0,1 % m/m

Contient du plomb – Liste SVHC [REACH] au 27.06.2024.

Contient des substances de la Proposition 65



En cas d'exposition, le plomb peut être cancérigène et reprotoxique.

<https://www.P65Warnings.ca.gov/>

Ne contient pas de minerais de la guerre

Ce produit ne contient pas de substances classées comme "minerais de la guerre" telles que le tantale, l'étain, l'or ou le wolfram provenant de République démocratique du Congo ou de pays frontaliers.