## INTERNATIONAL STANDARD TSO 3293

# Morse taper shank countersinks for angles $60^{\circ}, 90^{\circ}$ and $120^{\circ}$ inclusive 

Outils à chanfreiner à queue cône Morse, à angle au sommet de $60^{\circ}, 90^{\circ}$ et $120^{\circ}$

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ISO 3293:1975
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## FOREWORD

ISO (the International Organization for Standardization) is a worldwide federation of national standards institutes (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 set up 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 3293 ITwas ldrawn up by Technical committee, VIEW ISO/TC 29, Small tools, and circulated to the Member Bodies in December 1973.
(standardsititeh.ai)
It has been approved by the Member Bodies of the following countries:

|  |  | ISO 3293:1975 |
| :---: | :---: | :---: |
| Australia | India//standards.iteh.ai/catalo | Swedends/sist/44e95090-0881-4e2e-aec2- |
| Austria | Ireland a0600fl | Switzerlandz29-1975 |
| Belgium | Israel | Thailand |
| Canada | Italy | Turkey |
| Chile | Japan | United Kingdom |
| Czechoslovakia | Netherlands | U.S.A. |
| Egypt, Arab Rep. of | New Zealand | U.S.S.R. |
| France | Poland | Yugoslavia |
| Germany | Romania |  |
| Hungary | South Africa, Rep. of |  |

No Member Body expressed disapproval of the document.

## Morse taper shank countersinks for angles $60^{\circ}, 90^{\circ}$ and $120^{\circ}$ inclusive

## 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of Morse taper shank countersinks for angles $60^{\circ}, 90^{\circ}$ and $120^{\circ}$ inclusive.

It specifies dimensions in metric units only, these being regarded as the only recommended dimensions in the future, for countersinks with cutting diameters in the range 16 to 80 mm .

The dimensions given apply only to tools made from high speed steel. However, if the method of production allows, the shanks may be manufactured from a suitable alternative the shanks may be manufactured from a suitable alternative ISO 3294, Parallel shan
material, such as a carbon steel.


The Morse taper shanks shall be in accordance with ISO 296.

Unless otherwise indicated, the countersinks will be right-hand cutting.

Parallel shank countersinks are the subject of ISO 3294.

## 2 REFERENCES

ISO 296, Machine tools - Self-holding tapers for tool shanks

ISO 3294, Parallel shank countersinks for angles $60^{\circ}, 90^{\circ}$

Dimensions in millimetres

| Nominal size$d_{1}$ | Small diameter$d_{2}{ }^{*}$ | Overall length 11 |  | Body length $I_{2}$ |  | Morse taper shank No. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\alpha=60{ }^{\prime \prime}$ | $\alpha=90^{\circ} \& 120^{\circ}$ | $\alpha=60^{\circ}$ | $\alpha=90^{\circ} \& 120^{\circ}$ |  |
| 16 | 3,2 | 97 | 93 | 24 | 20 | 1 |
| 20 | 4 | 120 | 116 | 28 | 24 | 2 |
| 25 | 7 | 125 | 121 | 33 | 29 | 2 |
| 31,5 | 9 | 132 | 124 | 40 | 32 | 2 |
| 40 | 12,5 | 160 | 150 | 45 | 35 | 3 |
| 50 | 16 | 165 | 153 | 50 | 38 | 3 |
| 63 | 20 | 200 | 185 | 58 | 43 | 4 |
| 80 | 25 | 215 | 196 | 73 | 54 | 4 |

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[^0]:    * Front end design optional.

