INTERNATIONAL STANDARD

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

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • MEЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Outils à chanfreiner à queue cône Morse, à angle au sommet de 60° , 90° et 120°

iTeh STANDARD PREVIEW

ISO 3293:1975 https://standards.iteh.ai/catalog/standards/sist/44e95090-0881-4e2e-aec2a0600fbf84b5/iso-3293-1975

(standards.iteh.ai)

UDC 621.914.22

Descriptors : tools, countersinks, Morse taper shanks, dimensions.

Ref. No. ISO 3293-1975 (E)

3293

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.

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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 was drawn up by Technical Committee, VIEW ISO/TC 29, Small tools, and circulated to the Member Bodies in December 1973. (standards.iteh.ai)

It has been approved by the Member Bodies of the following countries :

		<u>ISO 3293:1975</u>
Australia	India//standards.iteh.ai	i/cataloSwadands/sist/44e95090-0881-4e2e-aec2-
Austria	Ireland	a0600fSwitzerlang293-1975
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. c	of

No Member Body expressed disapproval of the document.

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Morse taper shank countersinks for angles 60° , 90° and 120° inclusive

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of Morse taper shank countersinks for angles 60° , 90° and 120° 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 Morse taper shanks shall be in accordance with ISO 296.

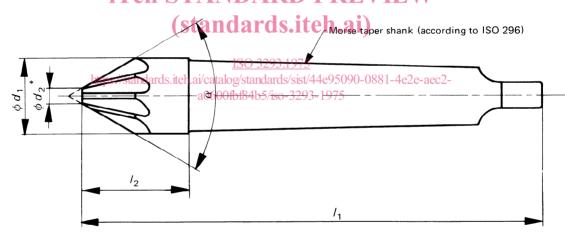
Unless otherwise indicated, the countersinks will be right-hand cutting.

Parallel shank countersinks are the subject of ISO 3294.

2 REFERENCES

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

the shanks may be manufactured from a suitable alternative ISO 3294, *Parallel shank countersinks for angles 60°, 90°* material, such as a carbon steel. Teh STANDAR and 120° inclusive.



 $\alpha = 60^{\circ}$, 90° or 120° inclusive (tolerance : $\begin{bmatrix} 0 \\ 1^{\circ} \end{bmatrix}$)

Dimensions in millimetres

Nominal size	Small diameter	Overall / ₁			length /2	Morse taper shank
ď1	<i>d</i> 2 [*]	$\alpha = 60^{\circ}$	$\alpha = 90^{\circ} \& 120^{\circ}$	$lpha=60^\circ$	$\alpha = 90^{\circ} \& 120^{\circ}$	No.
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

Front end design optional.

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