INTERNATIONAL STANDARD



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANIZATION FOR STANDARDIZATION ORGANIZATION INTERNATIONALE DE NORMALISATION

Counterbores with Morse taper shanks and detachable pilots

Outils à lamer à queue cône Morse et pilote amovible

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iTeh STANDARD PREVIEW (standards.iteh.ai)

ISO 4207:1977 https://standards.iteh.ai/catalog/standards/sist/adf05571-f973-4d56-870b-056e7b7bfec7/iso-4207-1977

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Descriptors: tools, cutting tools, power-operated tools, counterboring cutters, Morse taper shanks, tool pilots, specifications, dimensions.

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 4207 was developed by Technical Committee ISO/TC 29, Small tools, and was circulated to the member bodies in February 1976.

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

ISO 4207:1977

Australia https://standards.iteh.ai/catalog/standards/sist/adf05571-f973-4d56-870b-Austria Japan 056e7b7s/weden-4207-1977

Belgium Korea, Rep. of Switzerland
Brazil Mexico Turkey

Bulgaria Netherlands United Kingdom Germany Poland U.S.S.R.

Hungary Romania

Israel South Africa, Rep. of

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

U.S.A.

Counterbores with Morse taper shanks and detachable pilots

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of counterbores with Morse taper shanks and detachable pilots for general use.

The illustration is diagrammatic only and is not intended to indicate details of design.

2 REFERENCES

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

ISO 4204, Countersinks, 90°, with Morse taper shanks and detachable pilots.

3 DIMENSIONS

The dimensions for the counterbores, Morse taper shanks and detachable pilots are given in the table. It specifies dimensions in metric units only, these being regarded as the only recommended dimensions in the future.

4 TOLERANCES

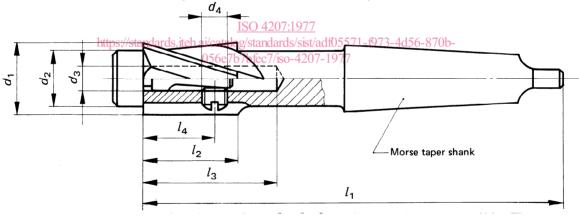
The tolerances relating to the counterbores, Morse taper shanks and detachable pilots are as follows:

- cutting diameter d_1 : z9

- pilot diameter d_2 : e8

pilot hole diameter d_3 : H8

ISO 4208, Detachable pilots for use with counterbores and 90° countersinks. (Standards.iteh Morse taper: according to ISO 296



Dimensions in millimetres

Cutting diameter d ₁ (29)		Pilot diameter d ₂ (e8)		<i>d</i> ₃ Н8	Set screw	<i>l</i> ₁	l_2	l_3	l_4	Morse taper
over	to	over	to		d ₄					No.
12,5	16	5	14	4	М 3	132	22	30	16	2
16	20	6,3	18	5	M 4	140	25	38	19	
20	25	8	22,4	6	M 5	150	30	46	23	
25	31,5	10	28	8	M 6	180	35	54	27	2
31,5	40	12,5	35,5	10	M 8	190	40	64	32	3
40	50	16	45	12	M 8	236	50	76	42	4
50	63	20	56	16	M10	250	63	88	53	4

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