

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

Countersinks, 90° , with Morse taper shanks and detachable pilots

Outils à chanfreiner à 90° , à queue cône Morse et pilote amovible

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ISO 4204:1977 https://standards.iteh.ai/catalog/standards/sist/37b2941e-0764-4ac6-abd3-95fc05551c47/iso-4204-1977

UDC 621.914.22

Ref. No. ISO 4204-1977 (E)

Descriptors: tools, cutting tools, power-operated tools, countersinks, 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 4204 was drawn up by Technical Committee ISO/TC 29, Small tools, and was circulated to the member bodies in January 1976.

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

Australia Italy ISpair204:1977

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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.

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1 SCOPE AND FIELD OF APPLICATION

ISO 4204:1977 DIMENSIONS

This International Standards/specifieds.the dimensions of ds/sist/Fife2dimensions 4 for 90% - countersinks with Morse taper 90° countersinks with Morse taper shanks and detachable so-42(shanks) and detachable pilots are given in the table. It 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 4207, Counterbores with Morse taper shanks and detachable pilots.

ISO 4208, Detachable pilots for use with counterbores and 90° countersinks.

specifies dimensions in metric units only, these being regarded as the only recommended dimensions in the future.

4 TOLERANCES

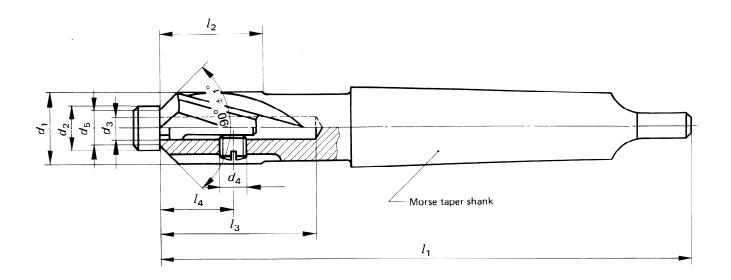
The tolerances relating to the countersink, Morse taper shanks and detachable pilots are as follows:

cutting diameter d₁: z9

pilot diameter d₂: e8

pilot hole diameter d₃: H8

- Morse taper: according to ISO 296.



Dimensions in millimetres

Cutting diameter d ₁ (z9)		Pilot diameter d ₂ (e8)		<i>d</i> з Н8	Set screw	d ₅	l ₁	l ₂	l ₃	14	Morse taper shank
over	to	over	to	b CT	AND	ADD	DDD	VIII	V		No.
12,5	16	6,3	14	4	M3	6	132	22	30	16	
16	20	6,3	18	5	M4	1 u.S. 11	140	25	38	19	2
20	25	8	22,4	6	M5 ISC	4207451977	150	30	46	23	
25	31,5	10	https://star 28	idards.iteh.a 8	95fe03551	c47/so-420	37629416- 14-1 ³⁸⁹ 7	35	54	27	3
31,5	40	12,5	35,5	10	M8	12	190	40	64	32	3

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