INTERNATIONAL STANDARD

ISO 4206

Third edition 2016-10-15

Counterbores with parallel shanks and solid pilots

Outils à lamer, à queue cylindrique et pilote fixe

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ISO 4206:2016 https://standards.iteh.ai/catalog/standards/sist/8a4a53e7-3332-42eb-bb4b-8e9c59a445fa/iso-4206-2016



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Cont	tents	Page
Forew	ord	iv
1	Scope	1
2	Dimensions	1
	A (informative) Relationship between designations of this International Standard and ISO 13399	2
Biblio	graphy	3

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Foreword

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The committee responsible for this document is ISO/TC 29, Small tools, Subcommittee SC 2, Holding tools, adaptive items and interfaces.

ISO 4206:2016

This third edition cancels and replaces the second edition (ISO 4206:1991), bot which it constitutes a minor revision, notably with the addition of Anther Al-Which gives the relationship between the designations of this International Standard and the ISO 13399 series.

Counterbores with parallel shanks and solid pilots

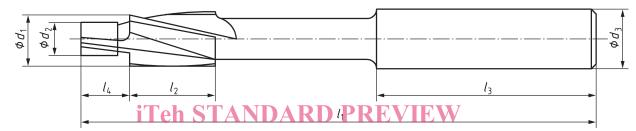
1 Scope

This International Standard specifies the dimensions, in millimetres, and the tolerances of counterbores with parallel shanks and solid pilots for general use.

2 Dimensions

The dimensions and tolerances are shown in Figure 1 and given in Table 1.

NOTE <u>Figure 1</u> illustrating this International Standard is diagrammatic only. It is not intended to show details of design.



NOTE This Figure shows a counterbore with cutting diameter d greater than 5 mm.

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Table 1

Cutting diameter d ₁ z9 ^a	Pilot diameter d_2 e8 a	Shank diameter d ₃ h9 ^a	l_1	l ₂	l ₃	<i>l</i> 4
$2 \le d_1 \le 3,15$	Diameter to be specified to suit pilot hole diameter, when ordering (minimum possible diameter is $d_2 = 1/3 d_1$)		45	7		
$3,15 < d_1 \le 5$			56	10		
$5 < d_1 \le 8$			14	31,5	≈ d ₂	
$8 < d_1 \le 10$			90	18	35,5	$\sim u_2$
$10 < d_1 \le 12,5$		10	00	10	35,5	
$12,5 < d_1 \le 20$		12,5	100	22	40	
a See ISO 286-2.						

Annex A

(informative)

Relationship between designations of this International Standard and ISO 13399

For the relationship between the designations of this International Standard and preferred symbols according to ISO 13399, see <u>Table A.1</u>.

Table A.1 — Relationship between designations of this International Standard and ISO 13399

Symbol in ISO 4206	Reference in ISO 4206	Property name in the ISO 13399 series	Symbol in the ISO 13399 series	Reference in the ISO 13399 series
d_1	<u>Figure 1</u> <u>Table 1</u>	Cutting diameter	DC	71D084653E57F
d_2	<u>Figure 1</u> <u>Table 1</u>	Guide pilot diameter	GPD	71ED6A7A6E6A2
<i>d</i> ₃	Figure 1 Table 1	Connection diameter machine side	DCONMS	71EBDBF5060E6
l_1	Figure 1eh Table 1	Overall length	PREOALEW	71D078EB7C086
l ₃	Figure 1 Table 1	Standards.It	en.ar)	71CF298870946
l ₄	Figure 1 Mabléstandards.	ISO 4206:2016 Guide pilot length iteh arcatalog standards/sist/	8a4a53e7- GPL 8a4a53e7-3332-42eb-bb	4b- 72724DE9E999D
d ₃ h9	Table 1	Tolerance class 420 connection diameter machine side	6-2016 TCDCONMS	72719B2BD8041

Bibliography

- [1] ISO 286-2, Geometrical product specifications (GPS) ISO code system for tolerances on linear sizes Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts
- [2] ISO 4205, Countersinks, 90°, with parallel shanks and solid pilots
- [3] ISO 13399 (all parts), Cutting tool data representation and exchange

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