

INTERNATIONAL STANDARD



3337

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

T-slot cutters with plain or flatted parallel shanks and with Morse taper shanks having tapped hole — Metric series

Fraises pour rainures à T, à queue cylindrique lisse, cylindrique à méplat et à queue cône Morse à trou taraudé — Série métrique

First edition — 1975-02-15

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UDC 621.914.22

Ref. No. ISO 3337-1975 (E)

Descriptors : tools, cutting tools, milling cutters, T-slots, dimensions.

Price based on 3 pages

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 3337 was drawn up by Technical Committee ISO/TC 29, *Small tools*, and circulated to the Member Bodies in November 1973.

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

Australia	Italy	Sweden
Austria	Japan	Switzerland
Belgium	Mexico	Thailand
Bulgaria	Netherlands	Turkey
Canada	New Zealand	United Kingdom
Egypt, Arab Rep. of	Poland	U.S.A.
France	Romania	U.S.S.R.
Germany (partly)	South Africa, Rep. of	Yugoslavia
Hungary	Spain	

The Member Bodies of the following countries expressed disapproval of the document on technical grounds :

Czechoslovakia
Germany (clause 3.2 only)

T-slot cutters with plain or flatted parallel shanks and with Morse taper shanks having tapped hole — Metric series

1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies the dimensions of metric series T-slot cutters with plain or flatted parallel shanks and with Morse taper shanks having tapped hole.

It applies to those tools which are intended for manufacturing T-slots for machine tools for equipment, in conformity with ISO 299.

It concerns the following three types of milling cutters :

- T-slot cutters with plain parallel shanks;
- T-slot cutters with flatted parallel shanks;
- T-slot cutters with Morse taper shanks with tapped hole.

T-slot cutters with plain parallel shanks or flatted parallel shanks are suitable for the production of ISO slots from 5 to 36 mm inclusive; those with Morse taper shanks are suitable for the production of ISO slots from 10 to 54 mm inclusive.

2 REFERENCES

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

ISO 299, *Machine tool tables — T-slots and corresponding bolts.*

ISO 3338, *Parallel shanks for milling cutters — Dimensional characteristics of plain parallel and parallel flatted shanks.*

3 T-SLOT CUTTER DIMENSIONS

3.1 T-slot cutters with plain parallel shanks and flatted parallel shanks

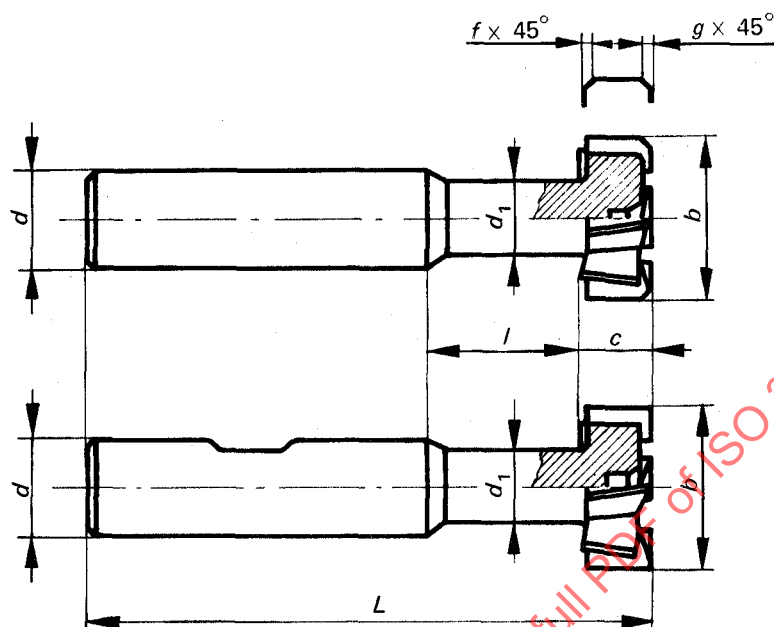


FIGURE 1

TABLE 1

Dimensions in millimetres

<i>b</i> h12	<i>c</i> h12	<i>d</i> ₁ max.	<i>l</i> ⁺¹ ₀	<i>d</i> ¹⁾	<i>L</i>	<i>f</i> max.	<i>g</i> max.	For slot of
11	3,5	4	10	10,0	53,5	0,6	1,0	5
12,5	6	5	11		57			6
16	8	7	14		62			8
18		8	17	70	10			
21	9	10	20	12,5	74			12
25	11	12	23	16,0	82		1,6	14
32	14	15	28		90	18		
40	18	19	34	25,0	108	1,0	2,5	22
50	22	25	42	31,5	124			28
60	28	30	51		139			36

1) Tolerance on *d*: h8 for plain parallel shanks,
h6 for flatted parallel shanks.

Chamfers *f* and *g* may be replaced by radii of the same value. These are optional configurations.

Parallel shanks and flatted parallel shanks are in accordance with ISO 3338.

Designation of cutters: The cutters are designated by the values given in the column "For slot of".

3.2 T-slot cutters with Morse taper shanks with tapped hole

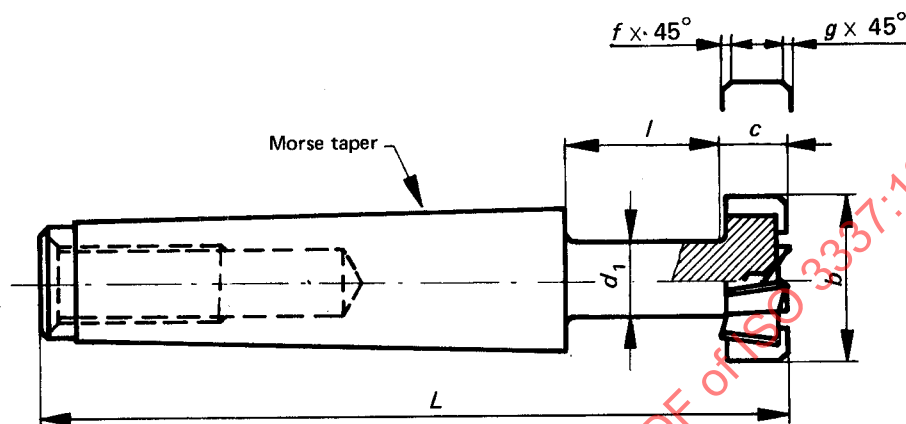


FIGURE 2

TABLE 2

Dimensions in millimetres

<i>b</i> h12	<i>c</i> h12	<i>d</i> ₁ max.	<i>l</i> +1 0	<i>L</i>	<i>f</i> max.	<i>g</i> max.	Morse taper No.	For slot of
18	8	8	17	82	0,6	1,0	1	10
21	9	10	20	98			2	12
25	11	12	23	103		1,6		14
32	14	15	28	111	1,0	2,5	3	18
40	18	19	34	138				4
50	22	25	42	173			5	
60	28	30	51	188				36
72	35	36	58	229	1,6	4,0	5	42
85	40	42	64	240	2,0	6,0		48
95	44	44	71	251				54

Chamfers *f* and *g* may be replaced by radii of the same value. These are optional configurations.

Morse taper shanks : Tapers having tapped hole in accordance with ISO 296.

Designation of cutters : The cutters are designated by the values given in the column "For slot of".

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