## INTERNATIONAL STANDARD



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

Slotted countersunk (flat) head screws — Metric series

Vis à tête fendue fraisée — Série métrique

First edition — 1974-11-01

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UDC 621.882.215.3

Descriptors: fasteners, screws, slotted head screws, dimensions.

Ref. No. ISO 2009-1974 (E)

#### **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 2009 was drawn up by Technical Committee ISO/TC 2, Fasteners, and circulated to the Member Bodies in December 1971.

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

Austria India
Belgium Italy
Bulgaria Japan
Czechoslovakia Netherla

Denmark

Egypt, Arab Rep. of

Netherlands Switz
New Zealand Thaila
Norway Turke

Finland Poland Germany Portugal

Hungary Romania

South Africa, Rep. of Spain

Sweden Switzerland Thailand Turkey

United Kingdom

U.S.S.R.

This International Standard has also been approved by the International Union of Railways (IUC).

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

Canada France

# Slotted countersunk (flat) head screws — Metric series view the full PDF of IE

#### 1 SCOPE AND FIELD OF APPLICATION

This International Standard specifies dimensions of slotted countersunk (flat) head screws of the metric series and provides a system of standard lengths, i.e. recommended combinations of thread diameter, thread length and nominal length.

#### 2 DIMENSIONS

Principal dimensions are given in table 1. Nominal lengths and thread lengths are given in clause 3.

The thread sizes in brackets are to be avoided if possible.

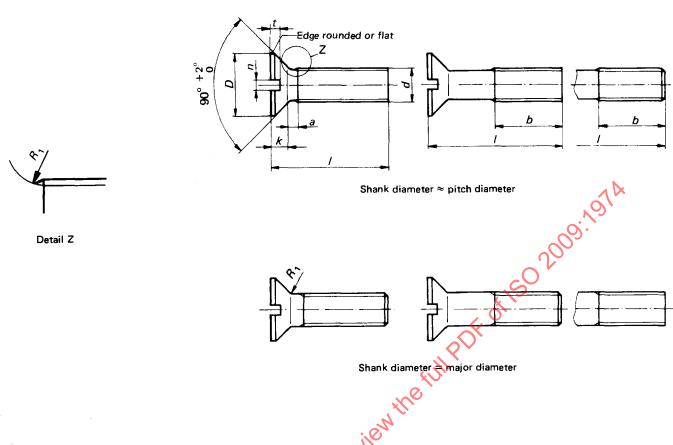


TABLE 1 — Principal dimensio	ns
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Dimensions in millimetres

Thread di	ameter d	1	1,2	(1,4)	1,6	(1,8)	2	(2,2)	25	3	(3,5)	4	(4,5)	5	6	8	10	12	(14)	16	(18)	20
D -	theoretical	2,2	2,64	3,08	3,52	3,96	4,4	4,84	5,5	6,3	7,35	8,4	9	10	12	16	20	24	28	32	36	40
	max.	2	2,35	2,7	3,1	3,45	3,8	4,2	4,7	5,6	6,5	7,4	8,3	9,2	11	14,5	18	21,5	25	28,5	32,5	36
	min.	1,75	2,1	2,45	2,8	3,15	3,5	3,9	4,4	5,3	6,1	7	7,9	8,8	10,5	14	17,5	21	24,5	28	31,5	35
k	max.	0,6	0,72	0,84	0,96	1,08	1,2	1,32	1,5	1,65	1,93	2,2	2,25	2,5	3	4	5	6	7	8	9	10
n	nominal	0,25	0,3	0,3	0,4	0,4	0,5	0,6	0,6	0,8	0,8	1	1	1,2	1,6	2	2,5	3	3	4	4	5
	min.	0,31	0,36	0,36	0,46	0,46	0,56	0,66	0,66	0,86	0,86	1,06	1,06	1,26	1,66	2,06	2,56	3,06	3,06	4,07	4,07	5,07
	max.	0,45	0,5	0,5	0,6	0,6	0,7	0,8	0,8	1	1	1,2	1,2	1,51	1,91	2,31	2,81	3,31	3,31	4,37	4,37	5,37
t -	min,	0.2	0,24	0,28	0,32	0,36	0,4	0,44	0,5	0,6	0,7	0,8	0,9	1	1,2	1,6	2	2,4	2,8	3,2	3,6	4
	max.	0,3	0,35	0,4	0,5	0,55	0,6	0,65	0,73	0,85	1	1,1	1,25	1,35	1,6	2,1	2,6	3	3,5	4	4,5	5
R <sub>1</sub>	<b>S</b> ≈	0,1	0,12	0,14	0,16	0,18	0,2	0,22	0,25	0,3	0,35	0,4	0,45	0,5	0,6	8,0	1	1,2	1,4	1,6	1,8	2
a (2 × pitch	) max.	0,5	0,5	0,6	0,7	0,7	0,8	0,9	0,9	1	1,2	1,4	1,5	1,6	2	2,5	3	3,5	4	4	5	5

### **3 STANDARD LENGTHS**

Standard lengths, i.e. recommended combinations of thread diameter, thread length and nominal length, are to be selected from those given in table 2. The standard lengths are those between the heavy stepped lines.

Screws with nominal lengths above the broken stepped line (--) are threaded up to the head. Nominal lengths in brackets are to be avoided if possible.

 ${\sf TABLE}\ 2-{\bf Standard\ lengths}$ 

Threaded up to the head only.

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