

INTERNATIONAL STANDARD

ISO
5713

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Equipment for working the soil — Fixing bolts for soil working elements

iTeh STANDARD PREVIEW
Matériel de travail du sol — Boulons pour la fixation des pièces d'usure
(standards.iteh.ai)

ISO 5713:1990

<https://standards.iteh.ai/catalog/standards/sist/e484279e-e4ea-443b-bd28-f8d76c42af4e/iso-5713-1990>



Reference number
ISO 5713:1990(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 5713 was prepared by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*.

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Equipment for working the soil — Fixing bolts for soil working elements

1 Scope

This International Standard specifies dimensions and characteristics of three types of bolts for the fixing of soil working elements.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 898-1:1988, *Mechanical properties of fasteners — Part 1: Bolts, screws and studs.*

ISO 965-3:1980, *ISO general purpose metric screw threads — Tolerances — Part 3: Deviations for constructional threads.*

ISO 4759-1:1978, *Tolerances for fasteners — Part 1: Bolts, screws and nuts with thread diameters between 1,6 (inclusive) and 150 mm (inclusive) and product grades A, B and C.*

3 Dimensions

Bolt dimensions are shown in figure 1, figure 2 and figure 3, and given in table 1, table 2 and table 3.

3.1 Round head countersunk square neck bolts

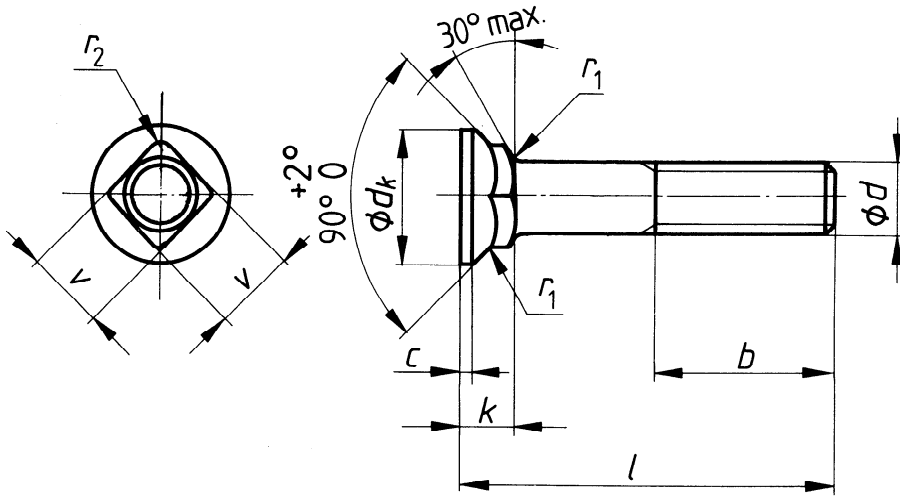


Figure 1 — Round head countersunk square neck bolts

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Table 1 — Dimensions of round head countersunk square neck bolts

Dimensions in millimetres

Thread size, d	M8	M10	M12	M16	M20
d_k h15	14	18	21	30	36
k h14	5,5	7	8	10,5	13,5
v h14	8	10	12	16	20
b 1)	22	26	30	38	46
c 2)	1	1,2	1,2	1,4	2,5
r_1 max.	0,8	0,8	1,2	1,2	1,6
r_2 max.	0,8	1	1,2	1,6	2
l js17	Standard lengths are indicated by crosses				
20	x				
25	x	x			
30	x	x	x		
35	x	x	x		
40		x	x	x	
45		x	x	x	x
50		x	x	x	x
60			x	x	x
70			-	x	x
80				x	x
90				x	x
100				x	x

1) Lengths $l \leq 45$ to be threaded up to the head.

2) Approximate dimensions.

3.2 Oval head countersunk square neck bolts

Dimensions in millimetres

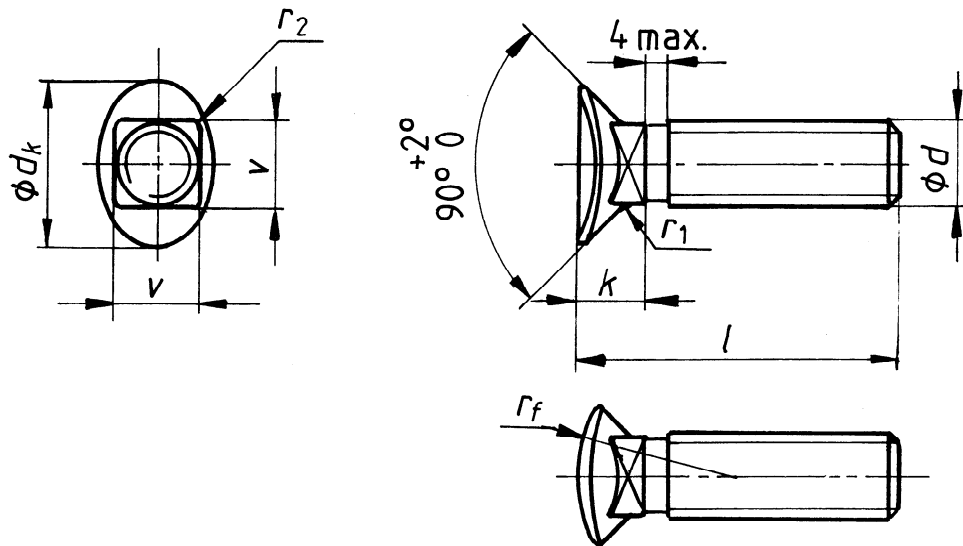


Figure 2 — Oval head countersunk square neck bolts
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Table 2 — Dimensions of oval head countersunk square neck bolts

<https://standards.iteh.ai/catalog/standards/sist/e42b150c-2023-417c-92af-610000000000/iso-5713-1990> Dimensions in millimetres

Thread size, <i>d</i>	M10	M12
<i>v</i> h14	10	12
<i>d_k</i> h15	19	23
<i>k</i> h16	7,5	9
<i>r₁</i> max.	1	1,2
<i>r₂</i> max.	1	1,2
<i>r_f</i> ± 2	16	20
<i>l</i> js17	35	35
	40	40
	45	45

3.3 Double nibbed countersunk bolts

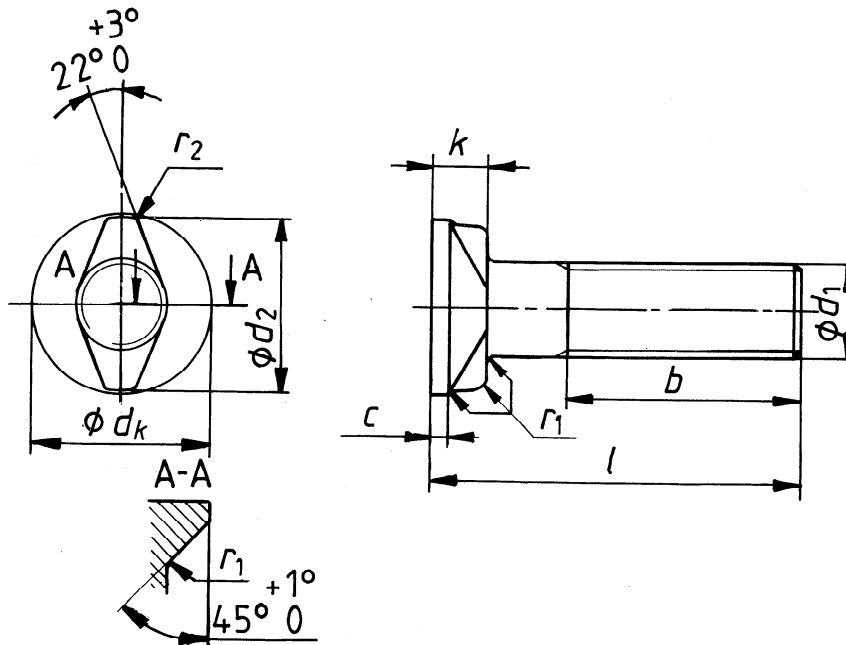


Figure 3 — Double nibbed countersunk bolts
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Table 3 — Dimensions of double nibbed countersunk bolts

Thread size, d_1	M8	M10	M12	M16
d_2 js13	23,4	15,4	19,4	27,4
d_k h14	14	16	20	28
k h15	4,1	4,5	5,5	8,5
r_1 max.	0,8	1	1,2	1,6
r_2 max.	3	3	3	3
c	1	1,5	1,5	2,5
b 1)	20	22	26	30
l js17	Standard lengths are indicated by crosses			
25	x	x	x	
30	x	x	x	
35	x	x	x	
40	x	x	x	
45	x	x	x	
50	x	x	x	
55	x	x	x	
60			x	
65				x
70				x
80				x
90				x
100				x

1) Lengths $l \leq 30$ to be threaded up to the head.

4 Specifications and reference International Standards

Table 4 — Specifications and reference International Standards

Thread	Tolerance	6g
	International Standard	ISO 965-3
Mechanical prop- erties	Property class	8.8 and above
	International Standard	ISO 898-1
Tolerances	Product grade	C
	International Standard	ISO 4759-1
Bolt end and thread run-out		No special requirements
Finish		The bolts shall be cleaned and protected from corrosion: at the very least, they shall be greased
Marking	International Standard	ISO 898-1

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Descriptors: agricultural machinery, tilling equipment, fasteners, bolts, specifications, dimensions.

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