
**Hexalobular socket pan head tapping
screws**

Vis à tôle à tête cylindrique bombée large à six lobes internes

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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 14585 was prepared by Technical Committee ISO/TC 2, *Fasteners*, Subcommittee SC 10, *Product standards for fasteners*.

This second edition cancels and replaces the first edition (ISO 14585:2001), of which it constitutes a minor revision. It also incorporates Technical Corrigendum ISO 14585:2001/Cor.1:2004.

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Hexalobular socket pan head tapping screws

1 Scope

This International Standard specifies the characteristics of hexalobular socket pan head tapping screws with thread sizes from ST2,9 to ST6,3 inclusive.

If, in special cases, specifications other than those listed in this International Standard are required, they can be selected from existing International Standards, for example ISO 1478, ISO 2702, ISO 4759-1.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 225, *Fasteners — Bolts, screws, studs and nuts — Symbols and descriptions of dimensions*

ISO 1478, *Tapping screws thread*

ISO 2702, *Heat-treated steel tapping screws — Mechanical properties*

ISO 3269, *Fasteners — Acceptance inspection*

ISO 4042, *Fasteners — Electroplated coatings*

ISO 4759-1, *Tolerances for fasteners — Part 1: Bolts, screws, studs and nuts — Product grades A, B and C*

ISO 10664, *Hexalobular internal driving feature for bolts and screws*

ISO 10683, *Fasteners — Non-electrolytically applied zinc flake coatings*

3 Dimensions

See Figure 1 and Table 1.

Symbols and descriptions of dimensions are specified in ISO 225.

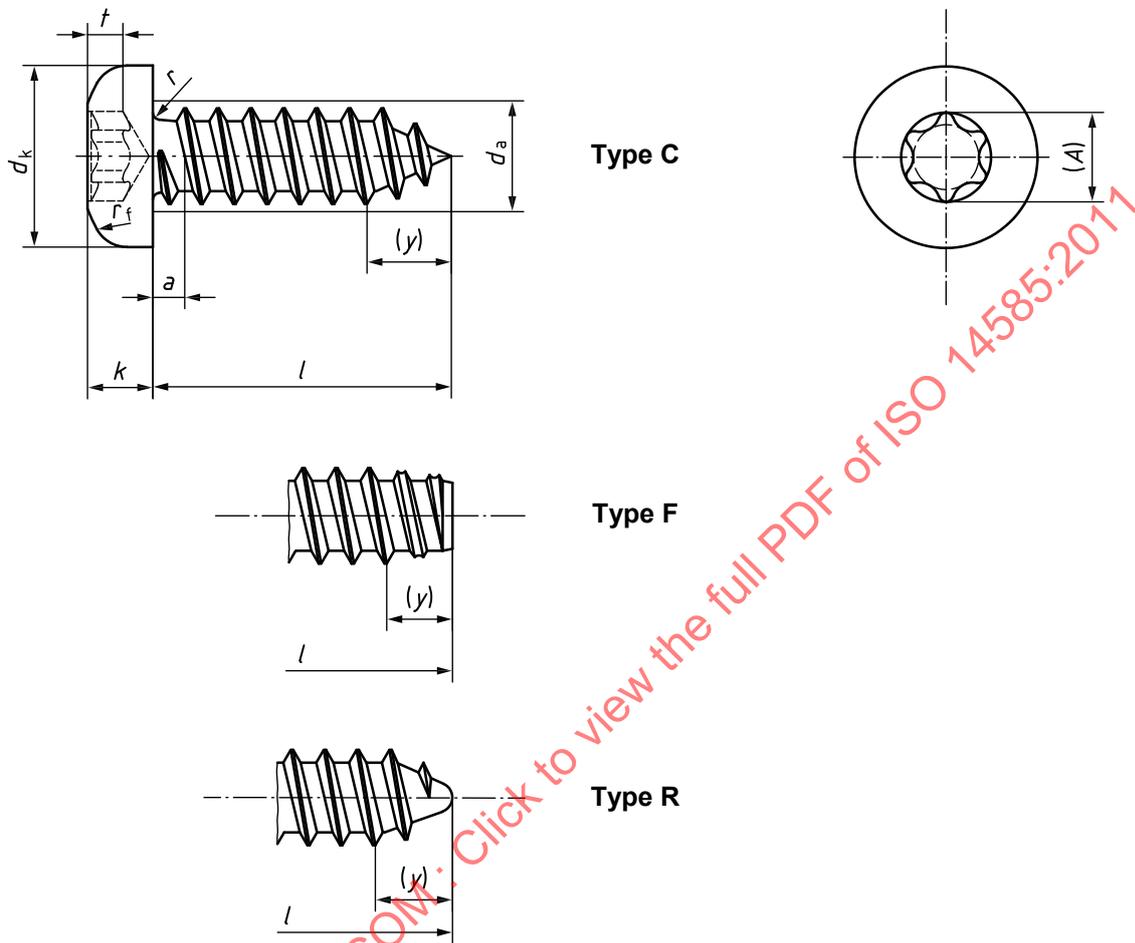


Figure 1

Table 1 — Dimensions

Dimensions in millimetres

Thread sizes		ST2,9	ST3,5	ST4,2	ST4,8	ST5,5	ST6,3			
p^a		1,1	1,3	1,4	1,6	1,8	1,8			
a		1,1	1,3	1,4	1,6	1,8	1,8			
d_a	max.	3,5	4,1	4,9	5,6	6,3	7,3			
d_k	nom. = max.	5,6	7,00	8,00	9,50	11,00	12,00			
	min.	5,3	6,64	7,64	9,14	10,57	11,57			
k	nom. = max.	2,4	2,6	3,1	3,7	4,0	4,6			
	min.	2,15	2,35	2,8	3,4	3,7	4,3			
r	min.	0,1	0,1	0,2	0,2	0,25	0,25			
r_f	≈	5	6	6,5	8	9	10			
y ref.	Type C	2,6	3,2	3,7	4,3	5	6			
	Type F	2,1	2,5	2,8	3,2	3,6	3,6			
	Type R	—	2,7	3,2	3,6	4,3	5			
Hexalobular socket	Socket No.	10	15	20	25	25	30			
	A	ref.	2,8	3,35	3,95	4,5	5,6			
	t	max.	1,27	1,40	1,80	2,03	2,03	2,42		
		min.	1,01	1,14	1,42	1,65	1,65	2,02		
l^b										
	Type C and Type R		Type F							
nom.	min.	max.	min.	max.						
4,5	3,7	5,3	3,7	4,5	—	—	—	—	—	—
6,5	5,7	7,3	5,7	6,5	—	—	—	—	—	—
9,5	8,7	10,3	8,7	9,5	—	—	—	—	—	—
13	12,2	13,8	12,2	13,0	—	—	—	—	—	—
16	15,2	16,8	15,2	16,0	—	—	—	—	—	—
19	18,2	19,8	18,2	19,0	—	—	—	—	—	—
22	21,2	22,8	20,7	22,0	—	—	—	—	—	—
25	24,2	25,8	23,7	25,0	—	—	—	—	—	—
32	30,7	33,3	30,7	32,0	—	—	—	—	—	—
38	36,7	39,3	36,7	38,0	—	—	—	—	—	—
45	43,7	46,3	43,5	45,0	—	—	—	—	—	—
50	48,7	51,3	48,5	50,0	—	—	—	—	—	—
NOTE Preferred lengths are the ones between the bold stepped lines.										
^a P is the pitch of the thread.										
^b Sizes with lengths marked with a dash (—) in this table cannot be manufactured.										

4 Specifications and reference International Standards

See Table 2.

Table 2 — Specifications and reference International Standards

Material		Steel, as specified in ISO 2702
Thread	International Standard	ISO 1478
Mechanical properties	International Standard	ISO 2702
Tolerances	Product grade	A
	International Standard	ISO 4759-1
Hexalobular socket	International Standard	ISO 10664
Finish — Coating		As processed
		Requirements for electroplating are specified in ISO 4042.
		Requirements for non-electrolytically applied zinc flake coatings are specified in ISO 10683.
		Additional requirements or other finishes or coatings shall be agreed between the supplier and the purchaser.
Acceptability		Acceptance inspection is specified in ISO 3269.

5 Designation

EXAMPLE A hexalobular socket pan head tapping screw with thread size ST3,5, nominal length $l = 16$ mm, round end Type R is designated as follows:

Tapping screw ISO 14585 - ST3,5 × 16 - R