
**Aerospace — Internal six-lobe drives —
Metric series**

Aéronautique et espace — Empreintes six lobes — Série métrique

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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 12257 was prepared by Technical Committee ISO/TC 20, *Aircraft and space vehicles*, Subcommittee SC 4, *Aerospace fastener systems*.

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Aerospace — Internal six-lobe drives — Metric series

1 Scope

This International Standard specifies the dimensions of metric internal six-lobe drives used in metric screws in nominal thread diameter range 3 mm to 20 mm.

NOTE Pending publication of an International Standard relating to limit gauges, special care is required to ensure that the dimensions and tolerances specified in this International Standard are confirmed by alternative means.

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 1101, *Geometrical Product Specifications (GPS) — Geometrical tolerancing — Tolerances of form, orientation, location and run-out*

3 Configuration and dimensions ISO 12257:2008

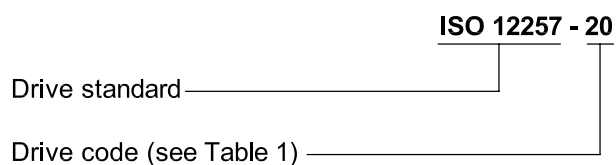
See Figure 1 and Table 1. <https://standards.iteh.ai/catalog/standards/sist/a45ebdc2-3f9b-47d4-9afc-8dbb9ef476ab/iso-12257-2008>

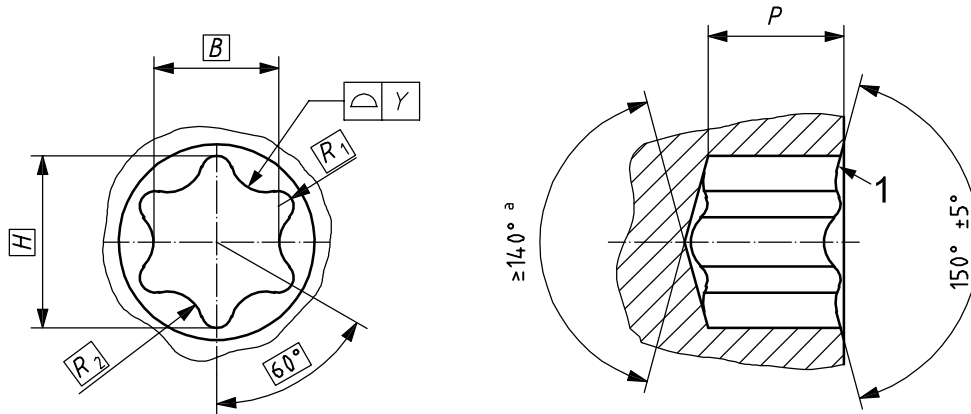
Dimensions and tolerances are expressed in millimetres.

The presentation of this International Standard conforms to ISO 1101.

4 Designation

The drive designation shall be as follows:





- Key**
- 1 chamfer (optional)
 - a Shape optional.

Figure 1

Table 1

iTeh STANDARD PREVIEW Dimensions in millimetres

Drive code	B	H	R_1	R_2	Y
06	1,27	1,75	0,16	0,36	0,025
07	1,5	2,07	0,18	0,42	
08	1,75	2,4	0,22	0,49	
09	1,85	2,6	0,23	0,53	
10	2,05	2,8	0,25	0,57	
15	2,4	3,35	0,3	0,69	
20	2,85	3,95	0,33	0,83	
25	3,25	4,5	0,4	0,89	0,035
27	3,65	5,1	0,42	1,08	
30	4,05	5,6	0,48	1,16	
40	4,85	6,75	0,58	1,4	0,05
45	5,64	7,93	0,61	1,76	
50	6,45	8,95	0,81	1,78	
55	8,05	11,35	0,96	2,62	0,06
60	9,6	13,45	1,12	2,83	

According to bolt head, see product standard

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