



BSI Standards Publication

ISO general purpose metric screw threads — Tolerances

Part 3: Limit deviations for screw threads

National foreword

This British Standard is the UK implementation of ISO 965-3:2021. It supersedes BS ISO 965-3:1998, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee FME/9, Fasteners.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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Published by BSI Standards Limited 2021

ISBN 978 0 539 14526 7

ICS 21.040.10

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This British Standard was published under the authority of the Standards Policy and Strategy Committee on 31 August 2021.

Amendments/corrigenda issued since publication

Date	Text affected
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Fourth edition
2021-07

**ISO general purpose metric screw
threads — Tolerances —**

**Part 3:
Limit deviations for screw threads**

*Filetages métriques ISO pour usages généraux — Tolérances —
Partie 3: Écarts limites pour filetages*



Reference number
ISO 965-3:2021(E)



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Published in Switzerland

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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Any trade name used in this document is information given for the convenience of users and does not constitute an endorsement.

For an explanation of the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT), see www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 1, *Screw threads*.

This fourth edition cancels and replaces the third edition (ISO 965-3:1998), which has been technically revised.

The main changes compared to the previous edition are as follows:

- in the document title, “constructional” has been deleted;
- in [Clause 1](#), the third paragraph has been added;
- in [Clause 4](#), the phrase “basic profiles” has been replaced by “basic profile and fundamental deviation” (first paragraph of ISO 965-3:1998; second paragraph of ISO 965-3:2020);
- in [Clause 4](#) and [Table 1](#), the deviation formula and values for the minor diameter of external threads have been deleted;
- in [Table 1](#) four tolerance classes (4g, 5g4g, 8e and 9e8e) have been added.

A list of all parts in the ISO 965 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.

ISO general purpose metric screw threads — Tolerances —

Part 3: Limit deviations for screw threads

1 Scope

This document specifies limit deviations for pitch and crest diameters for ISO general purpose metric screw threads (M) conforming to ISO 261 having basic profile in accordance with ISO 68-1.

The limit deviations specified are derived from the fundamental deviations and tolerances specified in ISO 965-1.

This document is applicable to ISO general purpose metric screw threads with the recommended tolerance classes.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 5408, *Screw threads — Vocabulary*

3 Terms and definitions

For the purposes of this part of document, the terms and definitions given in ISO 5408 apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>

4 Limit deviations

Limit deviations are given in [Table 1](#).

For internal threads as well as external threads, the actual root contour shall not in any point transgress the basic profile and fundamental deviation.

For coated threads, the tolerances apply to the parts before coating, unless otherwise stated. After coating the actual thread profile shall not in any point transgress the maximum material limits for position H or h respectively.

NOTE These provisions are intended for thin coatings, for example those obtained by electroplating.

Table 1 — Limit deviations

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
0,99	1,4	0,2	-	-	-	-	-	3h4h	0	-24	0	-36	
			-	-	-	-	-	4g	-17	-47	-17	-53	
			4H	40	0	38	0	4h	0	-30	0	-36	
			-	-	-	-	-	5g4g	-17	-55	-17	-53	
			5G	-	-	-	-	5g6g	-17	-55	-17	-73	
			5H	-	-	-	-	5h4h	0	-38	0	-36	
			-	-	-	-	-	5h6h	0	-38	0	-56	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-17	-65	-17	-73	
			6H	-	-	-	-	6h	0	-48	0	-56	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
0,99	1,4	0,25	8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
			-	-	-	-	-	3h4h	0	-26	0	-42	
			-	-	-	-	-	4g	-18	-52	-18	-60	
			4H	45	0	45	0	4h	0	-34	0	-42	
			-	-	-	-	-	5g4g	-18	-60	-18	-60	
			5G	74	18	74	18	5g6g	-18	-60	-18	-85	
			5H	56	0	56	0	5h4h	0	-42	0	-42	
			-	-	-	-	-	5h6h	0	-42	0	-67	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-18	-71	-18	-85	
			6H	-	-	-	-	6h	0	-53	0	-67	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
0,99	1,4	0,3	-	-	-	-	-	3h4h	0	-28	0	-48	
			-	-	-	-	-	4g	-18	-54	-18	-66	
			4H	48	0	53	0	4h	0	-36	0	-48	
			-	-	-	-	-	5g4g	-18	-63	-18	-66	
			5G	78	18	85	18	5g6g	-18	-63	-18	-93	
			5H	60	0	67	0	5h4h	0	-45	0	-48	
			-	-	-	-	-	5h6h	0	-45	0	-75	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	93	18	103	18	6g	-18	-74	-18	-93	
			6H	75	0	85	0	6h	0	-56	0	-75	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
1,4	2,8	0,2	-	-	-	-	-	3h4h	0	-25	0	-36	
			-	-	-	-	-	4g	-17	-49	-17	-53	
			4H	42	0	38	0	4h	0	-32	0	-36	
			-	-	-	-	-	5g4g	-17	-57	-17	-53	
			5G	-	-	-	-	5g6g	-17	-57	-17	-73	
			5H	-	-	-	-	5h4h	0	-40	0	-36	
			-	-	-	-	-	5h6h	0	-40	0	-56	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-17	-67	-17	-73	
			6H	-	-	-	-	6h	0	-50	0	-56	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
1,4	2,8	0,25	-	-	-	-	-	3h4h	0	-28	0	-42	
			-	-	-	-	-	4g	-18	-54	-18	-60	
			4H	48	0	45	0	4h	0	-36	0	-42	
			-	-	-	-	-	5g4g	-18	-63	-18	-60	
			5G	78	18	74	18	5g6g	-18	-63	-18	-85	
			5H	60	0	56	0	5h4h	0	-45	0	-42	
			-	-	-	-	-	5h6h	0	-45	0	-67	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-	-	-	-	
			6G	-	-	-	-	6g	-18	-74	-18	-85	
			6H	-	-	-	-	6h	0	-56	0	-67	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-	-	-	-	
			7H	-	-	-	-	7h6h	-	-	-	-	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
1,4	2,8	0,35	-	-	-	-	-	3h4h	0	-32	0	-53	
			-	-	-	-	-	4g	-19	-59	-19	-72	
			4H	53	0	63	0	4h	0	-40	0	-53	
			-	-	-	-	-	5g4g	-19	-69	-19	-72	
			5G	86	19	99	19	5g6g	-19	-69	-19	-104	
			5H	67	0	80	0	5h4h	0	-50	0	-53	
			-	-	-	-	-	5h6h	0	-50	0	-85	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-34	-97	-34	-119	
			6G	104	19	119	19	6g	-19	-82	-19	-104	
			6H	85	0	100	0	6h	0	-63	0	-85	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-19	-99	-19	-104	
			7H	-	-	-	-	7h6h	0	-80	0	-85	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
1,4	2,8	0,4	-	-	-	-	-	3h4h	0	-34	0	-60	
			-	-	-	-	-	4g	-19	-61	-19	-79	
			4H	56	0	71	0	4h	0	-42	0	-60	
			-	-	-	-	-	5g4g	-19	-72	-19	-79	
			5G	90	19	109	19	5g6g	-19	-72	-19	-114	
			5H	71	0	90	0	5h4h	0	-53	0	-60	
			-	-	-	-	-	5h6h	0	-53	0	-95	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-34	-101	-34	-129	
			6G	109	19	131	19	6g	-19	-86	-19	-114	
			6H	90	0	112	0	6h	0	-67	0	-95	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-19	-104	-19	-114	
			7H	-	-	-	-	7h6h	0	-85	0	-95	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
1,4	2,8	0,45	-	-	-	-	-	3h4h	0	-36	0	-63	
			-	-	-	-	-	4g	-20	-65	-20	-83	
			4H	60	0	80	0	4h	0	-45	0	-63	
			-	-	-	-	-	5g4g	-20	-76	-20	-83	
			5G	95	20		20	5g6g	-20	-76	-20	-120	
			5H	75	0	100	0	5h4h	0	-56	0	-63	
			-	-	-	-	-	5h6h	0	-56	0	-100	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-35	-106	-35	-135	
			6G	115	20	145	20	6g	-20	-91	-20	-120	
			6H	95	0	125	0	6h	0	-71	0	-100	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-20	-110	-20	-120	
			7H	-	-	-	-	7h6h	0	-90	0	-100	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
2,8	5,6	0,35	-	-	-	-	-	3h4h	0	-34	0	-53	
			-	-	-	-	-	4g	-19	-61	-19	-72	
			4H	56	0	63	0	4h	0	-42	0	-53	
			-	-	-	-	-	5g4g	-19	-72	-19	-72	
			5G	90	19	99	19	5g6g	-19	-72	-19	-104	
			5H	71	0	80	0	5h4h	0	-53	0	-53	
			-	-	-	-	-	5h6h	0	-53	0	-85	
			-	-	-	-	-	6e	-	-	-	-	
			-	-	-	-	-	6f	-34	-101	-34	-119	
			6G	109	19	119	19	6g	-19	-86	-19	-104	
			6H	90	0	100	0	6h	0	-67	0	-85	
			-	-	-	-	-	7e6e	-	-	-	-	
			7G	-	-	-	-	7g6g	-19	-104	-19	-104	
			7H	-	-	-	-	7h6h	0	-85	0	-85	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
2,8	5,6	0,5	-	-	-	-	-	3h4h	0	-38	0	-67	
			-	-	-	-	-	4g	-20	-68	-20	-87	
			4H	63	0	90	0	4h	0	-48	0	-67	
			-	-	-	-	-	5g4g	-20	-80	-20	-87	
			5G	100	20	132	20	5g6g	-20	-80	-20	-126	
			5H	80	0	112	0	5h4h	0	-60	0	-67	
			-	-	-	-	-	5h6h	0	-60	0	-106	
			-	-	-	-	-	6e	-50	-125	-50	-156	
			-	-	-	-	-	6f	-36	-111	-36	-142	
			6G	-	20	160	20	6g	-20	-95	-20	-126	
			6H	100	0	140	0	6h	0	-75	0	-106	
			-	-	-	-	-	7e6e	-50	-145	-50	-156	
			7G	145	20	200	20	7g6g	-20	-115	-20	-126	
			7H	125	0	-	0	7h6h	0	-95	0	-106	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
2,8	5,6	0,6	-	-	-	-	-	3h4h	0	-42	0	-80	
			-	-	-	-	-	4g	-21	-74	-21	-101	
			4H	71	0	100	0	4h	0	-53	0	-80	
			-	-	-	-	-	5g4g	-21	-88	-21	-101	
			5G	111	21	146	21	5g6g	-21	-88	-21	-146	
			5H	90	0	125	0	5h4h	0	-67	0	-80	
			-	-	-	-	-	5h6h	0	-67	0	-125	
			-	-	-	-	-	6e	-53	-138	-53	-178	
			-	-	-	-	-	6f	-36	-121	-36	-161	
			6G	133	21	181	21	6g	-21	-106	-21	-146	
			6H	112	0	160	0	6h	0	-85	0	-125	
			-	-	-	-	-	7e6e	-53	-159	-53	-178	
			7G	161	21	221	21	7g6g	-21	-127	-21	-146	
			7H	140	0	200	0	7h6h	0	-106	0	-125	
			-	-	-	-	-	8e	-	-	-	-	
2,8	5,6	0,7	8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
			-	-	-	-	-	3h4h	0	-45	0	-90	
			-	-	-	-	-	4g	-22	-78	-22	-112	
			4H	75	0	112	0	4h	0	-56	0	-90	
			-	-	-	-	-	5g4g	-22	-93	-22	-112	
			5G	117	22	162	22	5g6g	-22	-93	-22	-162	
			5H	95	0	140	0	5h4h	0	-71	0	-90	
			-	-	-	-	-	5h6h	0	-71	0	-140	
			-	-	-	-	-	6e	-56	-146	-56	-196	
			-	-	-	-	-	6f	-38	-128	-38	-178	
			6G	140	22	202	22	6g	-22	-112	-22	-162	
			6H	118	0		0	6h	0	-90	0	-140	
			-	-	-	-	-	7e6e	-56	-168	-56	-196	
			7G	172	22	246	22	7g6g	-22	-134	-22	-162	
			7H	-	0	224	0	7h6h	0	-112	0	-140	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
2,8	5,6	0,75	-	-	-	-	-	3h4h	0	-45	0	-90	
			-	-	-	-	-	4g	-22	-78	-22	-112	
			4H	75	0	118	0	4h	0	-56	0	-90	
			-	-	-	-	-	5g4g	-22	-93	-22	-112	
			5G	117	22	172	22	5g6g	-22	-93	-22	-162	
			5H	95	0		0	5h4h	0	-71	0	-90	
			-	-	-	-	-	5h6h	0	-71	0	-140	
			-	-	-	-	-	6e	-56	-146	-56	-196	
			-	-	-	-	-	6f	-38	-128	-38	-178	
			6G	140	22	212	22	6g	-22	-112	-22	-162	
			6H	118	0	190	0	6h	0	-90	0	-140	
			-	-	-	-	-	7e6e	-56	-168	-56	-196	
			7G	172	22	258	22	7g6g	-22	-134	-22	-162	
			7H		0	236	0	7h6h	0	-112	0	-140	
			-	-	-	-	-	8e	-	-	-	-	
			8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
2,8	5,6	0,8	-	-	-	-	-	3h4h	0	-48	0	-95	
			-	-	-	-	-	4g	-24	-84	-24	-119	
			4H	80	0	125	0	4h	0	-60	0	-95	
			-	-	-	-	-	5g4g	-24	-99	-24	-119	
			5G	124	24	184	24	5g6g	-24	-99	-24	-174	
			5H	100	0	160	0	5h4h	0	-75	0	-95	
			-	-	-	-	-	5h6h	0	-75	0	-150	
			-	-	-	-	-	6e	-60	-155	-60	-210	
			-	-	-	-	-	6f	-38	-133	-38	-188	
			6G	149	24	224	24	6g	-24	-119	-24	-174	
			6H	125	0	200	0	6h	0	-95	0	-150	
			-	-	-	-	-	7e6e	-60	-178	-60	-210	
			7G	184	24	274	24	7g6g	-24	-142	-24	-174	
			7H	160	0	250	0	7h6h	0	-118	0	-150	
			-	-	-	-	-	8e	-60	-210	-60	-296	
			8G	224	24	339	24	8g	-24	-174	-24	-260	
			-	-	-	-	-	9e8e	-60	-250	-60	-296	
			8H	200	0	315	0	9g8g	-24	-214	-24	-260	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
5,6	11,2	0,75	-	-	-	-	-	3h4h	0	-50	0	-90	
			-	-	-	-	-	4g	-22	-85	-22	-112	
			4H	85	0	118	0	4h	0	-63	0	-90	
			-	-	-	-	-	5g4g	-22	-102	-22	-112	
			5G	128	22	172	22	5g6g	-22	-102	-22	-162	
			5H	106	0		0	5h4h	0	-80	0	-90	
			-	-	-	-	-	5h6h	0	-80	0	-140	
			-	-	-	-	-	6e	-56	-156	-56	-196	
			-	-	-	-	-	6f	-38	-138	-38	-178	
			6G	154	22	212	22	6g	-22	-122	-22	-162	
			6H	132	0	190	0	6h	0	-100	0	-140	
			-	-	-	-	-	7e6e	-56	-181	-56	-196	
			7G	192	22	258	22	7g6g	-22	-147	-22	-162	
			7H	170	0	236	0	7h6h	0	-125	0	-140	
			-	-	-	-	-	8e	-	-	-	-	
5,6	11,2	1	8G	-	-	-	-	8g	-	-	-	-	
			-	-	-	-	-	9e8e	-	-	-	-	
			8H	-	-	-	-	9g8g	-	-	-	-	
			-	-	-	-	-	3h4h	0	-56	0	-112	
			-	-	-	-	-	4g	-26	-97	-26	-138	
			4H	95	0		0	4h	0	-71	0	-112	
			-	-	-	-	-	5g4g	-26	-116	-26	-138	
			5G	144	26	216	26	5g6g	-26	-116	-26	-206	
			5H	118	0	190	0	5h4h	0	-90	0	-112	
			-	-	-	-	-	5h6h	0	-90	0	-180	
			-	-	-	-	-	6e	-60	-172	-60	-240	
			-	-	-	-	-	6f	-40	-152	-40	-220	
			6G	176	26	262	26	6g	-26	-138	-26	-206	
			6H	-	0	236	0	6h	0	-112	0	-180	
			-	-	-	-	-	7e6e	-60	-200	-60	-240	
			7G	216	26	326	26	7g6g	-26	-166	-26	-206	
			7H	190	0	300	0	7h6h	0	-140	0	-180	
			-	-	-	-	-	8e	-60	-240	-60	-340	
			8G	262	26	401	26	8g	-26	-206	-26	-306	
			-	-	-	-	-	9e8e	-60	-284	-60	-340	
			8H	236	0	375	0	9g8g	-26	-250	-26	-306	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	
5,6	11,2	1,25	-	-	-	-	-	3h4h	0	-60	0	-132	
			-	-	-	-	-	4g	-28	-103	-28	-160	
			4H	100	0	170	0	4h	0	-75	0	-132	
			-	-	-	-	-	5g4g	-28	-123	-28	-160	
			5G	153	28	240	28	5g6g	-28	-123	-28	-240	
			5H	125	0	212	0	5h4h	0	-95	0	-132	
			-	-	-	-	-	5h6h	0	-95	0	-212	
			-	-	-	-	-	6e	-63	-181	-63	-275	
			-	-	-	-	-	6f	-42	-160	-42	-254	
			6G	188	28	293	28	6g	-28	-146	-28	-240	
			6H	160	0	265	0	6h	0	-118	0	-212	
			-	-	-	-	-	7e6e	-63	-213	-63	-275	
			7G	228	28	363	28	7g6g	-28	-178	-28	-240	
			7H	200	0	335	0	7h6h	0	-150	0	-212	
			-	-	-	-	-	8e	-63	-253	-63	-398	
			8G	278	28	453	28	8g	-28	-218	-28	-363	
			-	-	-	-	-	9e8e	-63	-299	-63	-398	
			8H	250	0	425	0	9g8g	-28	-264	-28	-363	
5,6	11,2	1,5	-	-	-	-	-	3h4h	0	-67	0	-150	
			-	-	-	-	-	4g	-32	-117	-32	-182	
			4H	112	0	190	0	4h	0	-85	0	-150	
			-	-	-	-	-	5g4g	-32	-138	-32	-182	
			5G	172	32	268	32	5g6g	-32	-138	-32	-268	
			5H	140	0	236	0	5h4h	0	-106	0	-150	
			-	-	-	-	-	5h6h	0	-106	0	-236	
			-	-	-	-	-	6e	-67	-199	-67	-303	
			-	-	-	-	-	6f	-45	-177	-45	-281	
			6G	212	32	332	32	6g	-32	-164	-32	-268	
			6H		0	300	0	6h	0	-132	0	-236	
			-	-	-	-	-	7e6e	-67	-237	-67	-303	
			7G	256	32	407	32	7g6g	-32	-202	-32	-268	
			7H	224	0	375	0	7h6h	0	-170	0	-236	
			-	-	-	-	-	8e	-67	-279	-67	-442	
			8G	312	32	507	32	8g	-32	-244	-32	-407	
			-	-	-	-	-	9e8e	-67	-332	-67	-442	
			8H	280	0		0	9g8g	-32	-297	-32	-407	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
11,2	22,4	1	-	-	-	-	-	3h4h	0	-60	0	-112	
			-	-	-	-	-	4g	-26	-101	-26	-138	
			4H	100	0		0	4h	0	-75	0	-112	
			-	-	-	-	-	5g4g	-26	-121	-26	-138	
			5G	151	26	216	26	5g6g	-26	-121	-26	-206	
			5H	125	0	190	0	5h4h	0	-95	0	-112	
			-	-	-	-	-	5h6h	0	-95	0	-180	
			-	-	-	-	-	6e	-60	-178	-60	-240	
			-	-	-	-	-	6f	-40	-158	-40	-220	
			6G	186	26	262	26	6g	-26	-144	-26	-206	
			6H	160	0	236	0	6h	0	-118	0	-180	
			-	-	-	-	-	7e6e	-60	-210	-60	-240	
			7G	226	26	326	26	7g6g	-26	-176	-26	-206	
			7H	200	0	300	0	7h6h	0	-150	0	-180	
			-	-	-	-	-	8e	-60	-250	-60	-340	
			8G	276	26	401	26	8g	-26	-216	-26	-306	
			-	-	-	-	-	9e8e	-60	-296	-60	-340	
			8H	250	0	375	0	9g8g	-26	-262	-26	-306	
11,2	22,4	1,25	-	-	-	-	-	3h4h	0	-67	0	-132	
			-	-	-	-	-	4g	-28	-113	-28	-160	
			4H	112	0	170	0	4h	0	-85	0	-132	
			-	-	-	-	-	5g4g	-28	-134	-28	-160	
			5G	168	28	240	28	5g6g	-28	-134	-28	-240	
			5H	140	0	212	0	5h4h	0	-106	0	-132	
			-	-	-	-	-	5h6h	0	-106	0	-212	
			-	-	-	-	-	6e	-63	-195	-63	-275	
			-	-	-	-	-	6f	-42	-174	-42	-254	
			6G	208	28	293	28	6g	-28	-160	-28	-240	
			6H		0	265	0	6h	0	-132	0	-212	
			-	-	-	-	-	7e6e	-63	-233	-63	-275	
			7G	252	28	363	28	7g6g	-28	-198	-28	-240	
			7H	224	0	335	0	7h6h	0	-170	0	-212	
			-	-	-	-	-	8e	-63	-275	-63	-398	
			8G	308	28	453	28	8g	-28	-240	-28	-363	
			-	-	-	-	-	9e8e	-63	-328	-63	-398	
			8H	280	0	425	0	9g8g	-28	-293	-28	-363	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		µm	µm	µm	µm		µm	µm	µm	µm	
11,2	22,4	1,5	-	-	-	-	-	3h4h	0	-71	0	-150	
			-	-	-	-	-	4g	-32	-122	-32	-182	
			4H	118	0	190	0	4h	0	-90	0	-150	
			-	-	-	-	-	5g4g	-32	-144	-32	-182	
			5G	182	32	268	32	5g6g	-32	-144	-32	-268	
			5H		0	236	0	5h4h	0	-112	0	-150	
			-	-	-	-	-	5h6h	0	-112	0	-236	
			-	-	-	-	-	6e	-67	-207	-67	-303	
			-	-	-	-	-	6f	-45	-185	-45	-281	
			6G	222	32	332	32	6g	-32	-172	-32	-268	
			6H	190	0	300	0	6h	0	-140	0	-236	
			-	-	-	-	-	7e6e	-67	-247	-67	-303	
			7G	268	32	407	32	7g6g	-32	-212	-32	-268	
			7H	236	0	375	0	7h6h	0	-180	0	-236	
			-	-	-	-	-	8e	-67	-291	-67	-442	
			8G	332	32	507	32	8g	-32	-256	-32	-407	
			-	-	-	-	-	9e8e	-67	-347	-67	-442	
			8H	300	0		0	9g8g	-32	-312	-32	-407	
11,2	22,4	1,75	-	-	-	-	-	3h4h	0	-75	0	-170	
			-	-	-	-	-	4g	-34	-129	-34	-204	
			4H	125	0	212	0	4h	0	-95	0	-170	
			-	-	-	-	-	5g4g	-34	-152	-34	-204	
			5G	194	34	299	34	5g6g	-34	-152	-34	-299	
			5H	160	0	265	0	5h4h	0	-118	0	-170	
			-	-	-	-	-	5h6h	0	-118	0	-265	
			-	-	-	-	-	6e	-71	-221	-71	-336	
			-	-	-	-	-	6f	-48	-198	-48	-313	
			6G	234	34	369	34	6g	-34	-184	-34	-299	
			6H	200	0	335	0	6h	0	-150	0	-265	
			-	-	-	-	-	7e6e	-71	-261	-71	-336	
			7G	284	34	459	34	7g6g	-34	-224	-34	-299	
			7H	250	0	425	0	7h6h	0	-190	0	-265	
			-	-	-	-	-	8e	-71	-307	-71	-496	
			8G	349	34	564	34	8g	-34	-270	-34	-459	
			-	-	-	-	-	9e8e	-71	-371	-71	-496	
			8H	315	0	530	0	9g8g	-34	-334	-34	-459	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
11,2	22,4	2	-	-	-	-	-	3h4h	0	-80	0	-180	
			-	-	-	-	-	4g	-38	-138	-38	-218	
			4H	132	0	236	0	4h	0	-100	0	-180	
			-	-	-	-	-	5g4g	-38	-163	-38	-218	
			5G	208	38	338	38	5g6g	-38	-163	-38	-318	
			5H	170	0	300	0	5h4h	0	-125	0	-180	
			-	-	-	-	-	5h6h	0	-125	0	-280	
			-	-	-	-	-	6e	-71	-231	-71	-351	
			-	-	-	-	-	6f	-52	-212	-52	-332	
			6G	250	38	413	38	6g	-38	-198	-38	-318	
			6H	212	0	375	0	6h	0	-160	0	-280	
			-	-	-	-	-	7e6e	-71	-271	-71	-351	
			7G	303	38	513	38	7g6g	-38	-238	-38	-318	
			7H	265	0		0	7h6h	0	-200	0	-280	
			-	-	-	-	-	8e	-71	-321	-71	-521	
			8G	373	38	638	38	8g	-38	-288	-38	-488	
			-	-	-	-	-	9e8e	-71	-386	-71	-521	
			8H	335	0	600	0	9g8g	-38	-353	-38	-488	
11,2	22,4	2,5	-	-	-	-	-	3h4h	0	-85	0	-212	
			-	-	-	-	-	4g	-42	-148	-42	-254	
			4H	140	0	280	0	4h	0	-106	0	-212	
			-	-	-	-	-	5g4g	-42	-174	-42	-254	
			5G	222	42	397	42	5g6g	-42	-174	-42	-377	
			5H		0	355	0	5h4h	0	-132	0	-212	
			-	-	-	-	-	5h6h	0	-132	0	-335	
			-	-	-	-	-	6e	-80	-250	-80	-415	
			-	-	-	-	-	6f	-58	-228	-58	-393	
			6G	266	42	492	42	6g	-42	-212	-42	-377	
			6H	224	0	450	0	6h	0	-170	0	-335	
			-	-	-	-	-	7e6e	-80	-292	-80	-415	
			7G	322	42	602	42	7g6g	-42	-254	-42	-377	
			7H	280	0	560	0	7h6h	0	-212	0	-335	
			-	-	-	-	-	8e	-80	-345	-80	-610	
			8G	397	42	752	42	8g	-42	-307	-42	-572	
			-	-	-	-	-	9e8e	-80	-415	-80	-610	
			8H	355	0	710	0	9g8g	-42	-377	-42	-572	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
22,4	45	1	-	-	-	-	-	3h4h	0	-63	0	-112	
			-	-	-	-	-	4g	-26	-106	-26	-138	
			4H	106	0		0	4h	0	-80	0	-112	
			-	-	-	-	-	5g4g	-26	-126	-26	-138	
			5G	158	26	216	26	5g6g	-26	-126	-26	-206	
			5H	132	0	190	0	5h4h	0	-100	0	-112	
			-	-	-	-	-	5h6h	0	-100	0	-180	
			-	-	-	-	-	6e	-60	-185	-60	-240	
			-	-	-	-	-	6f	-40	-165	-40	-220	
			6G	196	26	262	26	6g	-26	-151	-26	-206	
			6H	170	0	236	0	6h	0	-125	0	-180	
			-	-	-	-	-	7e6e	-60	-220	-60	-240	
			7G	238	26	326	26	7g6g	-26	-186	-26	-206	
			7H	212	0	300	0	7h6h	0	-160	0	-180	
			-	-	-	-	-	8e	-60	-260	-60	-340	
			8G	-	-	-	-	8g	-26	-226	-26	-306	
			-	-	-	-	-	9e8e	-60	-310	-60	-340	
			8H	-	-	-	-	9g8g	-26	-276	-26	-306	
22,4	45	1,5	-	-	-	-	-	3h4h	0	-75	0	-150	
			-	-	-	-	-	4g	-32	-127	-32	-182	
			4H	125	0	190	0	4h	0	-95	0	-150	
			-	-	-	-	-	5g4g	-32	-150	-32	-182	
			5G	192	32	268	32	5g6g	-32	-150	-32	-268	
			5H	160	0	236	0	5h4h	0	-118	0	-150	
			-	-	-	-	-	5h6h	0	-118	0	-236	
			-	-	-	-	-	6e	-67	-217	-67	-303	
			-	-	-	-	-	6f	-45	-195	-45	-281	
			6G	232	32	332	32	6g	-32	-182	-32	-268	
			6H	200	0	300	0	6h	0	-150	0	-236	
			-	-	-	-	-	7e6e	-67	-257	-67	-303	
			7G	282	32	407	32	7g6g	-32	-222	-32	-268	
			7H	250	0	375	0	7h6h	0	-190	0	-236	
			-	-	-	-	-	8e	-67	-303	-67	-442	
			8G	347	32	507	32	8g	-32	-268	-32	-407	
			-	-	-	-	-	9e8e	-67	-367	-67	-442	
			8H	315	0		0	9g8g	-32	-332	-32	-407	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
22,4	45	2	-	-	-	-	-	3h4h	0	-85	0	-180	
			-	-	-	-	-	4g	-38	-144	-38	-218	
			4H	140	0	236	0	4h	0	-106	0	-180	
			-	-	-	-	-	5g4g	-38	-170	-38	-218	
			5G	218	38	338	38	5g6g	-38	-170	-38	-318	
			5H		0	300	0	5h4h	0	-132	0	-180	
			-	-	-	-	-	5h6h	0	-132	0	-280	
			-	-	-	-	-	6e	-71	-241	-71	-351	
			-	-	-	-	-	6f	-52	-222	-52	-332	
			6G	262	38	413	38	6g	-38	-208	-38	-318	
			6H	224	0	375	0	6h	0	-170	0	-280	
			-	-	-	-	-	7e6e	-71	-283	-71	-351	
			7G	318	38	513	38	7g6g	-38	-250	-38	-318	
			7H	280	0		0	7h6h	0	-212	0	-280	
			-	-	-	-	-	8e	-71	-336	-71	-521	
			8G	393	38	638	38	8g	-38	-303	-38	-488	
			-	-	-	-	-	9e8e	-71	-406	-71	-521	
			8H	355	0	600	0	9g8g	-38	-373	-38	-488	
22,4	45	3	-	-	-	-	-	3h4h	0	-100	0	-236	
			-	-	-	-	-	4g	-48	-173	-48	-284	
			4H	170	0	315	0	4h	0	-125	0	-236	
			-	-	-	-	-	5g4g	-48	-208	-48	-284	
			5G	260	48	448	48	5g6g	-48	-208	-48	-423	
			5H	212	0	400	0	5h4h	0	-160	0	-236	
			-	-	-	-	-	5h6h	0	-160	0	-375	
			-	-	-	-	-	6e	-85	-285	-85	-460	
			-	-	-	-	-	6f	-63	-263	-63	-438	
			6G	313	48	548	48	6g	-48	-248	-48	-423	
			6H	265	0	500	0	6h	0	-200	0	-375	
			-	-	-	-	-	7e6e	-85	-335	-85	-460	
			7G	383	48	678	48	7g6g	-48	-298	-48	-423	
			7H	335	0	630	0	7h6h	0	-250	0	-375	
			-	-	-	-	-	8e	-85	-400	-85	-685	
			8G	473	48	848	48	8g	-48	-363	-48	-648	
			-	-	-	-	-	9e8e	-85	-485	-85	-685	
			8H	425	0	800	0	9g8g	-48	-448	-48	-648	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
22,4	45	3,5	-	-	-	-	-	3h4h	0	-106	0	-265	
			-	-	-	-	-	4g	-53	-185	-53	-318	
			4H	0	355	0	4h	0	132	0	-265		
			-	-	-	-	-	5g4g	-53	-223	-53	-318	
			5G	277	53	503	53	5g6g	-53	-223	-53	-478	
			5H	224	0	450	0	5h4h	0	-170	0	-265	
			-	-	-	-	-	5h6h	0	-170	0	-425	
			-	-	-	-	-	6e	-90	-302	-90	-515	
			-	-	-	-	-	6f	-70	-282	-70	-495	
			6G	333	53	613	53	6g	-53	-265	-53	-478	
			6H	280	0	560	0	6h	0	-212	0	-425	
			-	-	-	-	-	7e6e	-90	-355	-90	-515	
			7G	408	53	763	53	7g6g	-53	-318	-53	-478	
			7H	355	0	710	0	7h6h	0	-265	0	-425	
			-	-	-	-	-	8e	-90	-425	-90	-760	
22,4	45	4	8G	503	53	953	53	8g	-53	-388	-53	-723	
			-	-	-	-	-	9e8e	-90	-515	-90	-760	
			8H	450	0	900	0	9g8g	-53	-478	-53	-723	
			-	-	-	-	-	3h4h	0	-112	0	-300	
			-	-	-	-	-	4g	-60	-200	-60	-360	
			4H	190	0	375	0	4h	0	-140	0	-300	
			-	-	-	-	-	5g4g	-60	-240	-60	-360	
			5G	296	60	535	60	5g6g	-60	-240	-60	-535	
			5H	236	0		0	5h4h	0	-180	0	-300	
			-	-	-	-	-	5h6h	0	-180	0	-475	
			-	-	-	-	-	6e	-95	-319	-95	-570	
			-	-	-	-	-	6f	-75	-299	-75	-550	
			6G	360	60	660	60	6g	-60	-284	-60	-535	
			6H	300	0	600	0	6h	0	-224	0	-475	
			-	-	-	-	-	7e6e	-95	-375	-95	-570	
			7G	435	60	810	60	7g6g	-60	-340	-60	-535	
			7H	375	0	750	0	7h6h	0	-280	0	-475	
			-	-	-	-	-	8e	-95	-450	-95	-845	
			8G	535	60	1 010	60	8g	-60	-415	-60	-810	
			-	-	-	-	-	9e8e	-95	-545	-95	-845	
			8H	0	950	0	9g8g	-60	-510	-60	-810		

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
22,4	45	4,5	-	-	-	-	-	3h4h	0	-118	0	-315	
			-	-	-	-	-	4g	-63	-213	-63	-378	
			4H	200	0	425	0	4h	0	-150	0	-315	
			-	-	-	-	-	5g4g	-63	-253	-63	-378	
			5G	313	63	593	63	5g6g	-63	-253	-63	-563	
			5H	250	0	530	0	5h4h	0	-190	0	-315	
			-	-	-	-	-	5h6h	0	-190	0	-500	
			-	-	-	-	-	6e	-100	-336	-100	-600	
			-	-	-	-	-	6f	-80	-316	-80	-580	
			6G	378	63	733	63	6g	-63	-299	-63	-563	
			6H	315	0	670	0	6h	0	-236	0	-500	
			-	-	-	-	-	7e6e	-100	-400	-100	-600	
			7G	463	63	913	63	7g6g	-63	-363	-63	-563	
			7H	400	0	850	0	7h6h	0	-300	0	-500	
			-	-	-	-	-	8e	-100	-475	-100	-900	
45	90	1,5	8G	563	63	1 123	63	8g	-63	-438	-63	-863	
			-	-	-	-	-	9e8e	-100	-575	-100	-900	
			8H	500	0	1 060	0	9g8g	-63	-538	-63	-863	
			-	-	-	-	-	3h4h	0	-80	0	-150	
			-	-	-	-	-	4g	-32	-132	-32	-182	
			4H	132	0	190	0	4h	0	-100	0	-150	
			-	-	-	-	-	5g4g	-32	-157	-32	-182	
			5G	202	32	268	32	5g6g	-32	-157	-32	-268	
			5H	170	0	236	0	5h4h	0	-125	0	-150	
			-	-	-	-	-	5h6h	0	-125	0	-236	
			-	-	-	-	-	6e	-67	-227	-67	-303	
			-	-	-	-	-	6f	-45	-205	-45	-281	
			6G	244	32	332	32	6g	-32	-192	-32	-268	
			6H	212	0	300	0	6h	0	-160	0	-236	
			-	-	-	-	-	7e6e	-67	-267	-67	-303	
			7G	297	32	407	32	7g6g	-32	-232	-32	-268	
			7H	265	0	375	0	7h6h	0	-200	0	-236	
			-	-	-	-	-	8e	-67	-317	-67	-442	
			8G	367	32	507	32	8g	-32	-282	-32	-407	
			-	-	-	-	-	9e8e	-67	-382	-67	-442	
			8H	335	0		0	9g8g	-32	-347	-32	-407	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
45	90	2	-	-	-	-	-	3h4h	0	-90	0	-180	
			-	-	-	-	-	4g	-38	-150	-38	-218	
			4H	0	236	0	4h	0	-112	0	-180		
			-	-	-	-	-	5g4g	-38	-178	-38	-218	
			5G	228	38	338	38	5g6g	-38	-178	-38	-318	
			5H	190	0	300	0	5h4h	0	-140	0	-180	
			-	-	-	-	-	5h6h	0	-140	0	-280	
			-	-	-	-	-	6e	-71	-251	-71	-351	
			-	-	-	-	-	6f	-52	-232	-52	-332	
			6G	274	38	413	38	6g	-38	-218	-38	-318	
			6H	236	0	375	0	6h	0	-180	0	-280	
			-	-	-	-	-	7e6e	-71	-295	-71	-351	
			7G	338	38	513	38	7g6g	-38	-262	-38	-318	
			7H	300	0		0	7h6h	0	-224	0	-280	
			-	-	-	-	-	8e	-71	-351	-71	-521	
			8G	413	38	638	38	8g	-38	-318	-38	-488	
			-	-	-	-	-	9e8e	-71	-426	-71	-521	
			8H	375	0	600	0	9g8g	-38	-393	-38	-488	
45	90	3	-	-	-	-	-	3h4h	0	-106	0	-236	
			-	-	-	-	-	4g	-48	-180	-48	-284	
			4H	0	315	0	4h	0	-132	0	-236		
			-	-	-	-	-	5g4g	-48	-218	-48	-284	
			5G	272	48	448	48	5g6g	-48	-218	-48	-423	
			5H	224	0	400	0	5h4h	0	-170	0	-236	
			-	-	-	-	-	5h6h	0	-170	0	-375	
			-	-	-	-	-	6e	-85	-297	-85	-460	
			-	-	-	-	-	6f	-63	-275	-63	-438	
			6G	328	48	548	48	6g	-48	-260	-48	-423	
			6H	280	0	500	0	6h	0	-212	0	-375	
			-	-	-	-	-	7e6e	-85	-350	-85	-460	
			7G	403	48	678	48	7g6g	-48	-313	-48	-423	
			7H	355	0	630	0	7h6h	0	-265	0	-375	
			-	-	-	-	-	8e	-85	-420	-85	-685	
			8G	498	48	848	48	8g	-48	-383	-48	-648	
			-	-	-	-	-	9e8e	-85	-510	-85	-685	
			8H	450	0	800	0	9g8g	-48	-473	-48	-648	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
45	90	4	-	-	-	-	-	3h4h	0	-118	0	-300	
			-	-	-	-	-	4g	-60	-210	-60	-360	
			4H	200	0	375	0	4h	0	-150	0	-300	
			-	-	-	-	-	5g4g	-60	-250	-60	-360	
			5G	310	60	535	60	5g6g	-60	-250	-60	-535	
			5H	250	0		0	5h4h	0	-190	0	-300	
			-	-	-	-	-	5h6h	0	-190	0	-475	
			-	-	-	-	-	6e	-95	-331	-95	-570	
			-	-	-	-	-	6f	-75	-311	-75	-550	
			6G	375	60	660	60	6g	-60	-296	-60	-535	
			6H	315	0	600	0	6h	0	-236	0	-475	
			-	-	-	-	-	7e6e	-95	-395	-95	-570	
			7G	460	60	810	60	7g6g	-60	-360	-60	-535	
			7H	400	0	750	0	7h6h	0	-300	0	-475	
			-	-	-	-	-	8e	-95	-470	-95	-845	
45	90	5	8G	560	60	1 010	60	8g	-60	-435	-60	-810	
			-	-	-	-	-	9e8e	-95	-570	-95	-845	
			8H	500	0	950	0	9g8g	-60	-535	-60	-810	
			-	-	-	-	-	3h4h	0	-125	0	-335	
			-	-	-	-	-	4g	-71	-231	-71	-406	
			4H	212	0	450	0	4h	0	-160	0	-335	
			-	-	-	-	-	5g4g	-71	-271	-71	-406	
			5G	336	71	631	71	5g6g	-71	-271	-71	-601	
			5H	265	0	560	0	5h4h	0	-200	0	-335	
			-	-	-	-	-	5h6h	0	-200	0	-530	
			-	-	-	-	-	6e	-106	-356	-106	-636	
			-	-	-	-	-	6f	-85	-335	-85	-615	
			6G	406	71	781	71	6g	-71	-321	-71	-601	
			6H	335	0	710	0	6h	0	-250	0	-530	
			-	-	-	-	-	7e6e	-106	-421	-106	-636	
			7G	496	71	971	71	7g6g	-71	-386	-71	-601	
			7H	425	0	900	0	7h6h	0	-315	0	-530	
			-	-	-	-	-	8e	-106	-506	-106	-956	
			8G	601	71	1 191	71	8g	-71	-471	-71	-921	
			-	-	-	-	-	9e8e	-106	-606	-106	-956	
			8H	530	0	1	0	9g8g	-71	-571	-71	-921	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
45	90	5,5	-	-	-	-	-	3h4h	0	-132	0	-355	
			-	-	-	-	-	4g	-75	-245	-75	-430	
			4H	224	0		0	4h	0	-170	0	-355	
			-	-	-	-	-	5g4g	-75	-287	-75	-430	
			5G	355	75	675	75	5g6g	-75	-287	-75	-635	
			5H	280	0	600	0	5h4h	0	-212	0	-355	
			-	-	-	-	-	5h6h	0	-212	0	-560	
			-	-	-	-	-	6e	-112	-377	-112	-672	
			-	-	-	-	-	6f	-90	-355	-90	-650	
			6G	430	75	825	75	6g	-75	-340	-75	-635	
			6H	355	0	750	0	6h	0	-265	0	-560	
			-	-	-	-	-	7e6e	-112	-447	-112	-672	
			7G	525	75	1 025	75	7g6g	-75	-410	-75	-635	
			7H	450	0	950	0	7h6h	0	-335	0	-560	
			-	-	-	-	-	8e	-112	-537	-112	-1 012	
			8G	635	75	1 255	75	8g	-75	-500	-75	-975	
			-	-	-	-	-	9e8e	-112	-642	-112	-1 012	
			8H	560	0	1	0	9g8g	-75	-605	-75	-975	
45	90	6	-	-	-	-	-	3h4h	0	-140	0	-375	
			-	-	-	-	-	4g	-80	-260	-80	-455	
			4H	236	0	500	0	4h	0	-180	0	-375	
			-	-	-	-	-	5g4g	-80	-304	-80	-455	
			5G	380	80	710	80	5g6g	-80	-304	-80	-680	
			5H	300	0	630	0	5h4h	0	-224	0	-375	
			-	-	-	-	-	5h6h	0	-224	0	-600	
			-	-	-	-	-	6e	-118	-398	-118	-718	
			-	-	-	-	-	6f	-95	-375	-95	-695	
			6G	455	80	880	80	6g	-80	-360	-80	-680	
			6H	375	0	800	0	6h	0	-280	0	-600	
			-	-	-	-	-	7e6e	-118	-473	-118	-718	
			7G	555	80	1 080	80	7g6g	-80	-435	-80	-680	
			7H		0	1 000	0	7h6h	0	-355	0	-600	
			-	-	-	-	-	8e	-118	-568	-118	-1 068	
			8G	680	80	1 330	80	8g	-80	-530	-80	-1 030	
			-	-	-	-	-	9e8e	-118	-678	-118	-1 068	
			8H	600	0	1 250	0	9g8g	-80	-640	-80	-1 030	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
90	90	2	-	-	-	-	-	3h4h	0	-95	0	-180	
			-	-	-	-	-	4g	-38	-156	-38	-218	
			4H	160	0	236	0	4h	0	-118	0	-180	
			-	-	-	-	-	5g4g	-38	-188	-38	-218	
			5G	238	38	338	38	5g6g	-38	-188	-38	-318	
			5H	200	0	300	0	5h4h	0	-150	0	-180	
			-	-	-	-	-	5h6h	0	-150	0	-280	
			-	-	-	-	-	6e	-71	-261	-71	-351	
			-	-	-	-	-	6f	-52	-242	-52	-332	
			6G	288	38	413	38	6g	-38	-228	-38	-318	
			6H	250	0	375	0	6h	0	-190	0	-280	
			-	-	-	-	-	7e6e	-71	-307	-71	-351	
			7G	353	38	513	38	7g6g	-38	-274	-38	-318	
			7H	315	0		0	7h6h	0	-236	0	-280	
			-	-	-	-	-	8e	-71	-371	-71	-521	
			8G	438	38	638	38	8g	-38	-338	-38	-488	
			-	-	-	-	-	9e8e	-71	-446	-71	-521	
			8H	400	0	600	0	9g8g	-38	-413	-38	-488	
90	90	3	-	-	-	-	-	3h4h	0	-112	0	-236	
			-	-	-	-	-	4g	-48	-188	-48	-284	
			4H	190	0	315	0	4h	0	-140	0	-236	
			-	-	-	-	-	5g4g	-48	-228	-48	-284	
			5G	284	48	448	48	5g6g	-48	-228	-48	-423	
			5H	236	0	400	0	5h4h	0	-180	0	-236	
			-	-	-	-	-	5h6h	0	-180	0	-375	
			-	-	-	-	-	6e	-85	-309	-85	-460	
			-	-	-	-	-	6f	-63	-287	-63	-438	
			6G	348	48	548	48	6g	-48	-272	-48	-423	
			6H	300	0	500	0	6h	0	-224	0	-375	
			-	-	-	-	-	7e6e	-85	-365	-85	-460	
			7G	423	48	678	48	7g6g	-48	-328	-48	-423	
			7H	375	0	630	0	7h6h	0	-280	0	-375	
			-	-	-	-	-	8e	-85	-440	-85	-685	
			8G	523	48	848	48	8g	-48	-403	-48	-648	
			-	-	-	-	-	9e8e	-85	-535	-85	-685	
			8H		0	800	0	9g8g	-48	-498	-48	-648	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
90	4	4	-	-	-	-	-	3h4h	0	-125	0	-300	
			-	-	-	-	-	4g	-60	-220	-60	-360	
			4H	212	0	375	0	4h	0	-160	0	-300	
			-	-	-	-	-	5g4g	-60	-260	-60	-360	
			5G	325	60	535	60	5g6g	-60	-260	-60	-535	
			5H	265	0		0	5h4h	0	-200	0	-300	
			-	-	-	-	-	5h6h	0	-200	0	-475	
			-	-	-	-	-	6e	-95	-345	-95	-570	
			-	-	-	-	-	6f	-75	-325	-75	-550	
			6G	395	60	660	60	6g	-60	-310	-60	-535	
			6H	335	0	600	0	6h	0	-250	0	-475	
			-	-	-	-	-	7e6e	-95	-410	-95	-570	
			7G	485	60	810	60	7g6g	-60	-375	-60	-535	
			7H	425	0	750	0	7h6h	0	-315	0	-475	
			-	-	-	-	-	8e	-95	-495	-95	-845	
90	6	6	8G	590	60	1 010	60	8g	-60	-460	-60	-810	
			-	-	-	-	-	9e8e	-95	-595	-95	-845	
			8H	530	0	950	0	9g8g	-60	-560	-60	-810	
			-	-	-	-	-	3h4h	0	-150	0	-375	
			-	-	-	-	-	4g	-80	-270	-80	-455	
			4H	250	0	500	0	4h	0	-190	0	-375	
			-	-	-	-	-	5g4g	-80	-316	-80	-455	
			5G	395	80	710	80	5g6g	-80	-316	-80	-680	
			5H	315	0	630	0	5h4h	0	-236	0	-375	
			-	-	-	-	-	5h6h	0	-236	0	-600	
			-	-	-	-	-	6e	-118	-418	-118	-718	
			-	-	-	-	-	6f	-95	-395	-95	-695	
			6G	480	80	880	80	6g	-80	-380	-80	-680	
			6H	400	0	800	0	6h	0	-300	0	-600	
			-	-	-	-	-	7e6e	-118	-493	-118	-718	
			7G	580	80	1 080	80	7g6g	-80	-455	-80	-680	
			7H	500	0	1 000	0	7h6h	0	-375	0	-600	
			-	-	-	-	-	8e	-118	-593	-118	-1 068	
			8G	710	80	1 330	80	8g	-80	-555	-80	-1 030	
			-	-	-	-	-	9e8e	-118	-718	-118	-1 068	
			8H	630	0	1 250	0	9g8g	-80	-680	-80	-1 030	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
90	8	8	-	-	-	-	-	3h4h	0	-170	0	-450	
			-	-	-	-	-	4g	-100	-312	-100	-550	
			4H	280	0	630	0	4h	0	-212	0	-450	
			-	-	-	-	-	5g4g	-100	-365	-100	-550	
			5G	455	100	900	100	5g6g	-100	-365	-100	-810	
			5H	355	0	800	0	5h4h	0	-265	0	-450	
			-	-	-	-	-	5h6h	0	-265	0	-710	
			-	-	-	-	-	6e	-140	-475	-140	-850	
			-	-	-	-	-	6f	-118	-453	-118	-828	
			6G	550	100	1 100	100	6g	-100	-435	-100	-810	
			6H	450	0	1 000	0	6h	0	-335	0	-710	
			-	-	-	-	-	7e6e	-140	-565	-140	-850	
			7G	660	100	1 350	100	7g6g	-100	-525	-100	-810	
			7H	560	0	1 250	0	7h6h	0	-425	0	-710	
			-	-	-	-	-	8e	-140	-670	-140	-1 320	
			8G	810	100	1 700	100	8g	-100	-630	-100	-1 280	
			-	-	-	-	-	9e8e	-140	-810	-140	-1 320	
			8H	710	0	1 600	0	9g8g	-100	-770	-100	-1 280	
355	3	3	-	-	-	-	-	3h4h	0	-125	0	-236	
			-	-	-	-	-	4g	-48	-208	-48	-284	
			4H	212	0	315	0	4h	0	-160	0	-236	
			-	-	-	-	-	5g4g	-48	-248	-48	-284	
			5G	313	48	448	48	5g6g	-48	-248	-48	-423	
			5H	265	0	400	0	5h4h	0	-200	0	-236	
			-	-	-	-	-	5h6h	0	-200	0	-375	
			-	-	-	-	-	6e	-85	-335	-85	-460	
			-	-	-	-	-	6f	-63	-313	-63	-438	
			6G	383	48	548	48	6g	-48	-298	-48	-423	
			6H	335	0	500	0	6h	0	-250	0	-375	
			-	-	-	-	-	7e6e	-85	-400	-85	-460	
			7G	473	48	678	48	7g6g	-48	-363	-48	-423	
			7H	425	0	630	0	7h6h	0	-315	0	-375	
			-	-	-	-	-	8e	-85	-485	-85	-685	
			8G	578	48	848	48	8g	-48	-448	-48	-648	
			-	-	-	-	-	9e8e	-85	-585	-85	-685	
			8H	530	0	800	0	9g8g	-48	-548	-48	-648	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
355	4	4	-	-	-	-	-	3h4h	0	-140	0	-300	
			-	-	-	-	-	4g	-60	-240	-60	-360	
			4H	236	0	375	0	4h	0	-180	0	-300	
			-	-	-	-	-	5g4g	-60	-284	-60	-360	
			5G	360	60	535	60	5g6g	-60	-284	-60	-535	
			5H	300	0		0	5h4h	0	-224	0	-300	
			-	-	-	-	-	5h6h	0	-224	0	-475	
			-	-	-	-	-	6e	-95	-375	-95	-570	
			-	-	-	-	-	6f	-75	-355	-75	-550	
			6G	435	60	660	60	6g	-60	-340	-60	-535	
			6H	375	0	600	0	6h	0	-280	0	-475	
			-	-	-	-	-	7e6e	-95	-450	-95	-570	
			7G	535	60	810	60	7g6g	-60	-415	-60	-535	
			7H		0	750	0	7h6h	0	-355	0	-475	
			-	-	-	-	-	8e	-95	-545	-95	-845	
			8G	660	60	1 010	60	8g	-60	-510	-60	-810	
			-	-	-	-	-	9e8e	-95	-655	-95	-845	
			8H	600	0	950	0	9g8g	-60	-620	-60	-810	
355	6	6	-	-	-	-	-	3h4h	0	-160	0	-375	
			-	-	-	-	-	4g	-80	-280	-80	-455	
			4H	265	0	500	0	4h	0	-200	0	-375	
			-	-	-	-	-	5g4g	-80	-330	-80	-455	
			5G	415	80	710	80	5g6g	-80	-330	-80	-680	
			5H	335	0	630	0	5h4h	0	-250	0	-375	
			-	-	-	-	-	5h6h	0	-250	0	-600	
			-	-	-	-	-	6e	-118	-433	-118	-718	
			-	-	-	-	-	6f	-95	-410	-95	-695	
			6G	505	80	880	80	6g	-80	-395	-80	-680	
			6H	425	0	800	0	6h	0	-315	0	-600	
			-	-	-	-	-	7e6e	-118	-518	-118	-718	
			7G	610	80	1 080	80	7g6g	-80	-480	-80	-680	
			7H	530	0	1 000	0	7h6h	0	-400	0	-600	
			-	-	-	-	-	8e	-118	-618	-118	-1 068	
			8G	750	80	1 330	80	8g	-80	-580	-80	-1 030	
			-	-	-	-	-	9e8e	-118	-748	-118	-1 068	
			8H	670	0	1 250	0	9g8g	-80	-710	-80	-1 030	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

Table 1 (continued)

Basic major diameter		Pitch	Internal thread				External thread						
over	up to		Toler- ance class	Pitch diameter		Minor diameter		Toler- ance class	Pitch diameter		Major diameter		
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm	mm		μm	μm	μm	μm		μm	μm	μm	μm	
355	8	8	-	-	-	-	-	3h4h	0	-180	0	-450	
			-	-	-	-	-	4g	-100	-324	-100	-550	
			4H	300	0	630	0	4h	0	-224	0	-450	
			-	-	-	-	-	5g4g	-100	-380	-100	-550	
			5G		100	900	100	5g6g	-100	-380	-100	-810	
			5H	375	0	800	0	5h4h	0	-280	0	-450	
			-	-	-	-	-	5h6h	0	-280	0	-710	
			-	-	-	-	-	6e	-140	-495	-140	-850	
			-	-	-	-	-	6f	-118	-473	-118	-828	
			6G	575	100	1 100	100	6g	-100	-455	-100	-810	
					0	1 000	0	6h	0	-355	0	-710	
			-	-	-	-	-	7e6e	-140	-590	-140	-850	
			7G	700	100	1 350	100	7g6g	-100	-550	-100	-810	
			7H	600	0	1 250	0	7h6h	0	-450	0	-710	
			-	-	-	-	-	8e	-140	-700	-140	-1 320	
			8G	850	100	1 700	100	8g	-100	-660	-100	-1 280	
			-	-	-	-	-	9e8e	-140	-850	-140	-1 320	
			8H	750	0	1 600	0	9g8g	-100	-810	-100	-1 280	

NOTE "ES" and "es" are the symbols of "upper deviation"; "EI" and "ei" are the symbols of "lower deviation".

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