
International Standard



965/3

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

**ISO general purpose metric screw threads —
Tolerances —
Part 3 : Deviations for constructional threads**

Filetages métriques ISO pour usages généraux — Tolérances — Partie 3 : Écarts pour filetages de construction

Second edition — 1980-10-15

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[ISO 965-3:1980](#)

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Price based on 15 pages

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 965/3 was developed by Technical Committee ISO/TC 1, *Screw threads*, and was circulated to the member bodies in January 1979.

It has been approved by the member bodies of the following countries :

Australia	Germany, F. R.	Norway
Austria	Hungary	Poland
Belgium	India	Romania
Bulgaria	Ireland	South Africa, Rep. of
Canada	Italy	Spain
Chile	Japan	Sweden
China	Korea, Rep. of	Switzerland
Czechoslovakia	Libyan Arab Jamahiriya	United Kingdom
Denmark	Mexico	USA
Finland	Netherlands	USSR
France	New Zealand	

No member body expressed disapproval of the document.

This second edition cancels and replaces the first edition (i.e. ISO 965/3-1973).

This International Standard is one of a number of ISO publications determining tolerances for ISO metric screw threads. The complete set is made up as follows :

ISO 965/1, *ISO general purpose metric screw threads — Tolerances — Part 1 : Principles and basic data.*

ISO 965/2, *ISO general purpose metric screw threads — Tolerances — Part 2 : Limits of sizes for general purpose bolt and nut threads — Medium quality.*

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

ISO/R 1501, *ISO miniature screw threads.*

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ISO general purpose metric screw threads — Tolerances — Part 3 : Deviations for constructional threads

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1 Scope and field of application

Example :

This International Standard specifies deviations for pitch and crest diameters for ISO general purpose metric screw threads conforming to ISO 261, *ISO general purpose metric screw threads — General plan.*

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

2 Designation

Tolerances are designated by the relevant tolerance class as found under the heading "Tolerance class" in the tables.

Examples :

M6 – 6H

M6 – 5g6g

A fit between threaded parts is indicated by the nut thread tolerance designation followed by the bolt thread tolerance designation separated by a stroke.

ISO 965-3:1980 M6 – 6H/5g6g

https://standards.iteh.ai/catalog/standards/sist/1ec5da0ee-972f-43a9-a6a8-c307edf14c6b/iso-965-3-1980

3 Remarks

For nut threads as well as bolt threads, the actual root contour shall not in any point transgress the basic profile.

The tabulated deviation values for the minor diameter of the bolt thread are calculated on the basis of an H/6 truncation and may be used for stress calculations.

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. For thicker coatings, for example those obtained by hot-dip galvanizing, special provisions are under consideration and will be added to ISO 965/1, 2 and 3.

4 Deviations

ES, es = upper deviation
EI, ei = lower deviation

Basic major diameter		Pitch	Nut thread				Bolt thread							
over	up to and incl.		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter		Minor diameter ¹⁾ (for stress calculations)	
				ES	EI	ES	EI		es	ei	es	ei		
mm	mm			μm	μm	μm	μm		μm	μm	μm	μm		μm
0,99	1,4	0,2	—	—	—	—	—	3h4h	0	-24	0	-36	-29	
			4H	+40	0	+38	0	4h	0	-30	0	-36	-29	
			5G	—	—	—	—	5g6g	-17	-55	-17	-73	-46	
			5H	—	—	—	—	5h4h	0	-38	0	-36	-29	
			—	—	—	—	—	5h6h	0	-38	0	-56	-29	
			—	—	—	—	—	6e	—	—	—	—	—	
			—	—	—	—	—	6f	—	—	—	—	—	
			6G	—	—	—	—	6g	-17	-65	-17	-73	-46	
			6H	—	—	—	—	6h	0	-48	0	-56	-29	
			—	—	—	—	—	7e6e	—	—	—	—	—	
			7G	—	—	—	—	7g6g	—	—	—	—	—	
			7H	—	—	—	—	7h6h	—	—	—	—	—	
		8G	—	—	—	—	8g	—	—	—	—	—		
		8H	—	—	—	—	9g8g	—	—	—	—	—		
		0,25	0,25	—	—	—	—	—	3h4h	0	-26	0	-42	-36
				4H	+45	0	+45	0	4h	0	-34	0	-42	-36
				5G	+74	+18	+74	+18	5g6g	-18	-60	-18	-85	-54
				5H	+56	0	+56	0	5h4h	0	-42	0	-42	-36
				—	—	—	—	—	5h6h	0	-42	0	-67	-36
				—	—	—	—	—	6e	—	—	—	—	—
				—	—	—	—	—	6f	—	—	—	—	—
				6G	—	—	—	—	6g	-18	-71	-18	-85	-54
				6H	—	—	—	—	6h	0	-53	0	-67	-36
				—	—	—	—	—	7e6e	—	—	—	—	—
				7G	—	—	—	—	7g6g	—	—	—	—	—
				7H	—	—	—	—	7h6h	—	—	—	—	—
		8G	—	—	—	—	8g	—	—	—	—	—		
		8H	—	—	—	—	9g8g	—	—	—	—	—		
		0,3	0,3	—	—	—	—	—	3h4h	0	-28	0	-48	-43
				4H	+48	0	+53	0	4h	0	-36	0	-48	-43
				5G	+78	+18	+85	+18	5g6g	-18	-63	-18	-93	-61
				5H	+60	0	+67	0	5h4h	0	-45	0	-48	-43
				—	—	—	—	—	5h6h	0	-45	0	-75	-43
				—	—	—	—	—	6e	—	—	—	—	—
				—	—	—	—	—	6f	—	—	—	—	—
				6G	+93	+18	+103	+18	6g	-18	-74	-18	-93	-61
6H	+75			0	+85	0	6h	0	-56	0	-75	-43		
—	—			—	—	—	7e6e	—	—	—	—	—		
7G	—			—	—	—	7g6g	—	—	—	—	—		
7H	—			—	—	—	7h6h	—	—	—	—	—		
8G	—	—	—	—	8g	—	—	—	—	—				
8H	—	—	—	—	9g8g	—	—	—	—	—				

1) Deviation = es + H/6

ES, es = upper deviation
EI, ei = lower deviation

Basic major diameter		Pitch mm	Nut thread				Bolt thread						
over mm	up to and incl. mm		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter		Minor diameter (for stress calculations) µm
				ES	EI	ES	EI		es	ei	es	ei	
				µm	µm	µm	µm		µm	µm	µm	µm	
1,4	2,8	0,2	-	-	-	-	3h4h	0	- 25	0	- 36	- 29	
			4H	+ 42	0	+ 38	0	4h	0	- 32	0	- 36	- 29
			5G	-	-	-	-	5g6g	- 17	- 57	- 17	- 73	- 46
			5H	-	-	-	-	5h4h	0	- 40	0	- 36	- 29
			-	-	-	-	-	5h6h	0	- 40	0	- 56	- 29
			-	-	-	-	-	6e	-	-	-	-	-
			-	-	-	-	-	6f	- 32	- 82	- 32	- 88	- 61
			6G	-	-	-	-	6g	- 17	- 67	- 17	- 73	- 46
			6H	-	-	-	-	6h	0	- 50	0	- 56	- 29
			-	-	-	-	-	7e6e	-	-	-	-	-
			7G	-	-	-	-	7g6g	-	-	-	-	-
			7H	-	-	-	-	7h6h	-	-	-	-	-
		8G	-	-	-	-	8g	-	-	-	-	-	
		8H	-	-	-	-	9g8g	-	-	-	-	-	
		0,25	-	-	-	-	3h4h	0	- 28	0	- 42	- 36	
			4H	+ 48	0	+ 45	0	4h	0	- 36	0	- 42	- 36
			5G	+ 78	+ 18	+ 74	+ 18	5g6g	- 18	- 63	- 18	- 85	- 54
			5H	+ 60	0	+ 56	0	5h4h	0	- 45	0	- 42	- 36
			-	-	-	-	-	5h6h	0	- 45	0	- 67	- 36
			-	-	-	-	-	6e	-	-	-	-	-
			-	-	-	-	-	6f	- 33	- 89	- 33	- 100	- 69
			6G	-	-	-	-	6g	- 18	- 74	- 18	- 85	- 54
			6H	-	-	-	-	6h	0	- 56	0	- 67	- 36
			-	-	-	-	-	7e6e	-	-	-	-	-
			7G	-	-	-	-	7g6g	-	-	-	-	-
			7H	-	-	-	-	7h6h	-	-	-	-	-
		8G	-	-	-	-	8g	-	-	-	-	-	
		8H	-	-	-	-	9g8g	-	-	-	-	-	
		0,35	-	-	-	-	3h4h	0	- 32	0	- 53	- 51	
			4H	+ 53	0	+ 63	0	4h	0	- 40	0	- 53	- 51
			5G	+ 86	+ 19	+ 99	+ 19	5g6g	- 19	- 69	- 19	- 104	- 70
			5H	+ 67	0	+ 80	0	5h4h	0	- 50	0	- 53	- 51
			-	-	-	-	-	5h6h	0	- 50	0	- 85	- 51
			-	-	-	-	-	6e	-	-	-	-	-
			-	-	-	-	-	6f	- 34	- 97	- 34	- 119	- 85
			6G	+ 104	+ 19	+ 119	+ 19	6g	- 19	- 82	- 19	- 104	- 70
			6H	+ 85	0	+ 100	0	6h	0	- 63	0	- 85	- 51
			-	-	-	-	-	7e6e	-	-	-	-	-
			7G	-	-	-	-	7g6g	- 19	- 99	- 19	- 104	- 70
			7H	-	-	-	-	7h6h	0	- 80	0	- 85	- 51
		8G	-	-	-	-	8g	-	-	-	-	-	
		8H	-	-	-	-	9g8g	-	-	-	-	-	
		0,4	-	-	-	-	3h4h	0	- 34	0	- 60	- 58	
			4H	+ 56	0	+ 71	0	4h	0	- 42	0	- 60	- 58
			5G	+ 90	+ 19	+ 109	+ 19	5g6g	- 19	- 72	- 19	- 114	- 77
			5H	+ 71	0	+ 90	0	5h4h	0	- 53	0	- 60	- 58
			-	-	-	-	-	5h6h	0	- 53	0	- 95	- 58
			-	-	-	-	-	6e	-	-	-	-	-

ES, es = upper deviation
EI, ei = lower deviation

Basic major diameter		Pitch	Nut thread				Bolt thread						
over	up to and incl.		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter		Minor diameter (for stress calculations)
				ES	EI	ES	EI		es	ei	es	ei	
mm	mm			μm	μm	μm	μm		μm	μm	μm	μm	
1,4	2,8	0,4	—	—	—	—	—	6f	-34	-101	-34	-129	-92
			6G	+109	+19	+131	+19	6g	-19	-86	-19	-114	-77
			6H	+90	0	+112	0	6h	0	-67	0	-95	-58
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	-19	-104	-19	-114	-77
			7H	—	—	—	—	7h6h	0	-85	0	-95	-58
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0,45	—	—	—	—	—	3h4h	0	-36	0	-63	-65
			4H	+60	0	+80	0	4h	0	-45	0	-63	-65
			5G	+95	+20	+120	+20	5g6g	-20	-76	-20	-120	-85
			5H	+75	0	+100	0	5h4h	0	-56	0	-63	-65
			—	—	—	—	—	5h6h	0	-56	0	-100	-65
			—	—	—	—	—	6e	—	—	—	—	—
—	—		—	—	—	6f	-35	-106	-35	-135	-100		
6G	+115		+20	+145	+20	6g	-20	-91	-20	-120	-85		
6H	+95		0	+125	0	6h	0	-71	0	-100	-65		
—	—		—	—	—	7e6e	—	—	—	—	—		
7G	—	—	—	—	7g6g	-20	-110	-20	-120	-85			
7H	—	—	—	—	7h6h	0	-90	0	-100	-65			
8G	—	—	—	—	8g	—	—	—	—	—			
8H	—	—	—	—	9g8g	—	—	—	—	—			
2,8	5,6	0,35	—	—	—	—	—	3h4h	0	-34	0	-53	-51
			4H	+56	0	+63	0	4h	0	-42	0	-53	-51
			5G	+90	+19	+99	+19	5g6g	-19	-72	-19	-104	-70
			5H	+71	0	+80	0	5h4h	0	-53	0	-53	-51
			—	—	—	—	—	5h6h	0	-53	0	-85	-51
			—	—	—	—	—	6e	—	—	—	—	—
			—	—	—	—	—	6f	-34	-101	-34	-119	-85
			6G	+109	+19	+119	+19	6g	—	—	—	—	—
			6H	+90	0	+100	0	6h	—	—	—	—	—
			—	—	—	—	—	7e6e	—	—	—	—	—
			7G	—	—	—	—	7g6g	-19	-104	-19	-104	-70
			7H	—	—	—	—	7h6h	0	-85	0	-85	-51
			8G	—	—	—	—	8g	—	—	—	—	—
			8H	—	—	—	—	9g8g	—	—	—	—	—
		0,5	—	—	—	—	—	3h4h	0	-38	0	-67	-72
			4H	+63	0	+90	0	4h	0	-48	0	-67	-72
			5G	+100	+20	+132	+20	5g6g	-20	-80	-20	-126	-92
			5H	+80	0	+112	0	5h4h	0	-60	0	-67	-72
			—	—	—	—	—	5h6h	0	-60	0	-106	-72
			—	—	—	—	—	6e	-50	-125	-50	-156	-122
			—	—	—	—	—	6f	-36	-111	-36	-142	-108
			6G	+120	+20	+160	+20	6g	-20	-95	-20	-126	-92
6H	+100	0	+140	0	6h	0	-75	0	-106	-72			
—	—	—	—	—	7e6e	-50	-145	-50	-156	-122			
7G	+145	+20	+200	+20	7g6g	-20	-115	-20	-126	-92			
7H	+125	0	+180	0	7h6h	0	-95	0	-106	-72			

ES, es = upper deviation
EI, ei = lower deviation

Basic major diameter		Pitch	Nut thread				Bolt thread						
over	up to and incl.		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter		Minor diameter (for stress calculations)
				ES	EI	ES	EI		es	ei	es	ei	
				μm	μm	μm	μm		μm	μm	μm	μm	
mm	mm	mm											
2,8	5,6	0,5	8G	-	-	-	-	8g	-	-	-	-	-
			8H	-	-	-	-	9g8g	-	-	-	-	-
		0,6	-	-	-	-	-	3h4h	0	- 42	0	- 80	- 87
			4H	+ 71	0	+ 100	0	4h	0	- 53	0	- 80	- 87
			5G	+ 111	+ 21	+ 146	+ 21	5g6g	- 21	- 88	- 21	- 146	- 108
			5H	+ 90	0	+ 125	0	5h4h	0	- 67	0	- 80	- 87
			-	-	-	-	-	5h6h	0	- 67	0	- 125	- 87
			-	-	-	-	-	6e	- 53	- 138	- 53	- 178	- 140
			-	-	-	-	-	6f	- 36	- 121	- 36	- 161	- 123
			6G	+ 133	+ 21	+ 181	+ 21	6g	- 21	- 106	- 21	- 146	- 108
			6H	+ 112	0	+ 160	0	6h	0	- 85	0	- 125	- 87
			-	-	-	-	-	7e6e	- 53	- 159	- 53	- 178	- 140
			7G	+ 161	+ 21	+ 221	+ 21	7g6g	- 21	- 127	- 21	- 146	- 108
			7H	+ 140	0	+ 200	0	7h6h	0	- 106	0	- 125	- 87
			8G	-	-	-	-	8g	-	-	-	-	-
			8H	-	-	-	-	9g8g	-	-	-	-	-
		0,7	-	-	-	-	-	3h4h	0	- 45	0	- 90	- 101
			4H	+ 75	0	+ 112	0	4h	0	- 56	0	- 90	- 101
			5G	+ 117	+ 22	+ 162	+ 22	5g6g	- 22	- 93	- 22	- 162	- 123
			5H	+ 95	0	+ 140	0	5h4h	0	- 71	0	- 90	- 101
			-	-	-	-	-	5h6h	0	- 71	0	- 140	- 101
			-	-	-	-	-	6e	- 56	- 146	- 56	- 196	- 157
			-	-	-	-	-	6f	- 38	- 128	- 38	- 178	- 139
			6G	+ 140	+ 22	+ 202	+ 22	6g	- 22	- 112	- 22	- 162	- 123
			6H	+ 118	0	+ 180	0	6h	0	- 90	0	- 140	- 101
			-	-	-	-	-	7e6e	- 56	- 168	- 56	- 196	- 157
			7G	+ 172	+ 22	+ 246	+ 22	7g6g	- 22	- 134	- 22	- 162	- 123
			7H	+ 150	0	+ 224	0	7h6h	0	- 112	0	- 140	- 101
			8G	-	-	-	-	8g	-	-	-	-	-
			8H	-	-	-	-	9g8g	-	-	-	-	-
		0,75	-	-	-	-	-	3h4h	0	- 45	0	- 90	- 108
			4H	+ 75	0	+ 118	-	4h	0	- 56	0	- 90	- 108
			5G	+ 117	+ 22	+ 172	+ 22	5g6g	- 22	- 93	- 22	- 162	- 130
			5H	+ 95	0	+ 150	0	5h4h	0	- 71	0	- 90	- 108
			-	-	-	-	-	5h6h	0	- 71	0	- 140	- 108
			-	-	-	-	-	6e	- 56	- 146	- 56	- 196	- 164
			-	-	-	-	-	6f	- 38	- 128	- 38	- 178	- 146
			6G	+ 140	+ 22	+ 212	+ 22	6g	- 22	- 112	- 22	- 162	- 130
			6H	+ 118	0	+ 190	0	6h	0	- 90	0	- 140	- 108
			-	-	-	-	-	7e6e	- 56	- 168	- 56	- 196	- 164
			7G	+ 172	+ 22	+ 258	+ 22	7g6g	- 22	- 134	- 22	- 162	- 130
			7H	+ 150	0	+ 236	0	7h6h	0	- 112	0	- 140	- 108
			8G	-	-	-	-	8g	-	-	-	-	-
			8H	-	-	-	-	9g8g	-	-	-	-	-
		0,8	-	-	-	-	-	3h4h	0	- 48	0	- 95	- 115
			4H	+ 80	0	+ 125	0	4h	0	- 60	0	- 95	- 115
			5G	+ 124	+ 24	+ 184	+ 24	5g6g	- 24	- 99	- 24	- 174	- 140
			5H	+ 100	0	+ 160	0	5h4h	0	- 75	0	- 95	- 115

ES, es = upper deviation
EI, ei = lower deviation

Basic major diameter		Pitch	Nut thread				Bolt thread								
over	up to and incl.		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter		Minor diameter (for stress calculations)		
				ES	EI	ES	EI		es	ei	es	ei			
				μm	μm	μm	μm		μm	μm	μm	μm		μm	
2,8	5,6	0,8	—	—	—	—	5h6h	0	-75	0	-150	-115			
			—	—	—	—	6e	-60	-155	-60	-210	-176			
			—	—	—	—	6f	-38	-133	-38	-188	-153			
			6G	+149	+24	+224	+24	6g	-24	-119	-24	-174	-140		
			6H	+125	0	+200	0	6h	0	-95	0	-150	-115		
			—	—	—	—	7e6e	-60	-178	-60	-210	-176			
			7G	+184	+24	+274	+24	7g6g	-24	-142	-24	-174	-140		
			7H	+160	0	+250	0	7h6h	0	-118	0	-150	-116		
			8G	+224	+24	+339	+24	8g	-24	-174	-24	-260	-140		
			8H	+200	0	+315	0	9g8g	-24	-214	-24	-260	-140		
5,6	11,2	0,75	—	—	—	—	—	3h4h	0	-50	0	-90	-108		
			4H	+85	0	+118	0	4h	0	-63	0	-90	-108		
			5G	+128	+22	+172	+22	5g6g	-22	-102	-22	-162	-130		
			5H	+106	0	+150	0	5h4h	0	-80	0	-90	-108		
			—	—	—	—	—	5h6h	0	-80	0	-140	-108		
			—	—	—	—	—	6e	-56	-156	-56	-196	-164		
			—	—	—	—	—	6f	-38	-138	-38	-178	-146		
			6G	+154	+22	+212	+22	6g	-22	-122	-22	-162	-130		
			6H	+132	0	+190	0	6h	0	-100	0	-140	-108		
			—	—	—	—	—	7e6e	-56	-181	-56	-196	-164		
			7G	+192	+22	+258	+22	7g6g	-22	-147	-22	-162	-130		
			7H	+170	0	+236	0	7h6h	0	-125	0	-140	-108		
		8G	—	—	—	—	8g	—	—	—	—	—			
		8H	—	—	—	—	9g8g	—	—	—	—	—			
				1	—	—	—	—	—	3h4h	0	-56	0	-112	-144
					4H	+95	0	+150	0	4h	0	-71	0	-112	-144
					5G	+144	+26	+216	+26	5g6g	-26	-116	-26	-206	-170
					5H	+118	0	+190	0	5h4h	0	-90	0	-112	-144
					—	—	—	—	—	5h6h	0	-90	0	-180	-144
					—	—	—	—	—	6e	-60	-172	-60	-240	-204
		—	—		—	—	—	6f	-40	-152	-40	-220	-184		
		6G	+176		+26	+262	+26	6g	-26	-138	-26	-206	-170		
		6H	+150	0	+236	0	6h	0	-112	0	-180	-144			
			—	—	—	—	7e6e	-60	-200	-60	-240	-204			
			7G	+216	+26	+326	+26	7g6g	-26	-166	-26	-206	-170		
			7H	+190	0	+300	0	7h6h	0	-140	0	-180	-144		
			8G	+262	+26	+401	+26	8g	-26	-206	-26	-306	-170		
			8H	+236	0	+375	0	9g8g	-26	-250	-26	-306	-170		
		1,25	—	—	—	—	—	3h4h	0	-60	0	-132	-180		
			4H	+100	0	+170	0	4h	0	-75	0	-132	-180		
			5G	+153	+28	+240	+28	5g6g	-28	-123	-28	-240	-208		
			5H	+125	0	+212	0	5h4h	0	-95	0	-132	-180		
			—	—	—	—	—	5h6h	0	-95	0	-212	-180		
			—	—	—	—	—	6e	-63	-181	-63	-275	-243		
			—	—	—	—	—	6f	-42	-160	-42	-254	-222		
			6G	+188	+28	+293	+28	6g	-28	-146	-28	-240	-208		
		6H	+160	0	+265	0	6h	0	-118	0	-212	-180			
			—	—	—	—	7e6e	-63	-213	-63	-275	-243			

ES, es = upper deviation
EI, ei = lower deviation

Basic major diameter		Pitch mm	Nut thread				Bolt thread						
over mm	up to and incl. mm		Tolerance class	Pitch diameter		Minor diameter		Tolerance class	Pitch diameter		Major diameter		Minor diameter (for stress calculations) µm
				ES	EI	ES	EI		es	ei	es	ei	
				µm	µm	µm	µm		µm	µm	µm	µm	
5,6	11,2	1,25	7G	+ 228	+ 28	+ 363	+ 28	7g6g	- 28	- 178	- 28	- 240	- 208
			7H	+ 200	0	+ 335	0	7h6h	0	- 150	0	- 212	- 180
			8G	+ 278	+ 28	+ 453	+ 28	8g	- 28	- 218	- 28	- 363	- 208
			8H	+ 250	0	+ 425	0	9g8g	- 28	- 264	- 28	- 363	- 208
		1,5	-	-	-	-	-	3h4h	0	- 67	0	- 150	- 217
			4H	+ 112	0	+ 190	0	4h	0	- 85	0	- 150	- 217
			5G	+ 172	+ 32	+ 268	+ 32	5g6g	- 32	- 138	- 32	- 268	- 249
			5H	+ 140	0	+ 236	0	5h4h	0	- 106	0	- 150	- 217
			-	-	-	-	-	5h6h	0	- 106	0	- 236	- 217
			-	-	-	-	-	6e	- 67	- 199	- 67	- 303	- 284
			-	-	-	-	-	6f	- 45	- 177	- 45	- 281	- 262
			6G	+ 212	+ 32	+ 332	+ 32	6g	- 32	- 164	- 32	- 268	- 249
			6H	+ 180	0	+ 300	0	6h	0	- 132	0	- 236	- 217
			-	-	-	-	-	7e6e	- 67	- 237	- 67	- 303	- 284
			7G	+ 256	+ 32	+ 407	+ 32	7g6g	- 32	- 202	- 32	- 268	- 249
			7H	+ 224	0	+ 375	0	7h6h	0	- 170	0	- 236	- 217
			8G	+ 312	+ 32	+ 507	+ 32	8g	- 32	- 244	- 32	- 407	- 249
			8H	+ 280	0	+ 475	0	9g8g	- 32	- 297	- 32	- 407	- 249
11,2	22,4	1	-	-	-	-	-	3h4h	0	- 60	0	- 112	- 144
			4H	+ 100	0	+ 150	0	4h	0	- 75	0	- 112	- 144
			5G	+ 151	+ 26	+ 216	+ 26	5g6g	- 26	- 121	- 26	- 206	- 170
			5H	+ 125	0	+ 190	0	5h4h	0	- 95	0	- 112	- 144
			-	-	-	-	-	5h6h	0	- 95	0	- 180	- 144
			-	-	-	-	-	6e	- 60	- 178	- 60	- 240	- 204
			-	-	-	-	-	6f	- 40	- 158	- 40	- 220	- 184
			6G	+ 186	+ 26	+ 262	+ 26	6g	- 26	- 144	- 26	- 206	- 170
			6H	+ 160	0	+ 236	0	6h	0	- 118	0	- 180	- 144
			-	-	-	-	-	7e6e	- 60	- 210	- 60	- 240	- 204
			7G	+ 226	+ 26	+ 326	+ 26	7g6g	- 26	- 176	- 26	- 206	- 170
			7H	+ 200	0	+ 300	0	7h6h	0	- 150	0	- 180	- 144
			8G	+ 276	+ 26	+ 401	+ 26	8g	- 26	- 216	- 26	- 306	- 170
			8H	+ 250	0	+ 375	0	9g8g	- 26	- 262	- 26	- 306	- 170
		1,25	-	-	-	-	-	3h4h	0	- 67	0	- 132	- 180
			4H	+ 112	0	+ 170	0	4h	0	- 85	0	- 132	- 180
			5G	+ 168	+ 28	+ 240	+ 28	5g6g	- 28	- 134	- 28	- 240	- 208
			5H	+ 140	0	+ 212	0	5h4h	0	- 106	0	- 132	- 180
			-	-	-	-	-	5h6h	0	- 106	0	- 212	- 180
			-	-	-	-	-	6e	- 63	- 195	- 63	- 275	- 243
			-	-	-	-	-	6f	- 42	- 174	- 42	- 254	- 222
			6G	+ 208	+ 28	+ 293	+ 28	6g	- 28	- 160	- 28	- 240	- 208
			6H	+ 180	0	+ 265	0	6h	0	- 132	0	- 212	- 180
			-	-	-	-	-	7e6e	- 63	- 233	- 63	- 275	- 243
			7G	+ 252	+ 28	+ 363	+ 28	7g6g	- 28	- 198	- 28	- 240	- 208
			7H	+ 224	0	+ 335	0	7h6h	0	- 170	0	- 212	- 180
1,5	-	-	-	-	-	3h4h	0	- 71	0	- 150	- 217		
	4iH	+ 118	0	+ 190	0	4h	0	- 90	0	- 150	- 217		