

Metrisches ISO-Gewinde

Grenzmaße für Feingewinde von 252 bis 1000 mm Nenn-
durchmesser mit gebräuchlichen Toleranzfeldern

DIN

13

Teil 26

ISO metric fine threads from 252 to 1000 mm diameter; limits

Ersatz für Ausgabe 02.73

Filetages métriques ISO à pas fin du diamètre de 252 à 1000 mm; dimensions limits

Maße in mm

1 Anwendungsbereich

Diese Norm gilt für Metrisches ISO-Gewinde mit einem Grundprofil nach DIN 13 Teil 19. Die Grenzen für die Kern-
ausrundung des Bolzensgewindes sind nach DIN 13 Teil 14 mit $R = 0,144 P = H/6$ für das Größtmaß und mit $R_{\min} = 0,125 P \approx H/7$ für das Kleinstmaß des Kerndurchmessers d_3 festgelegt.

Sie enthält Grenzmaße für Feingewinde von 252 bis 1000 mm Gewinde-Nenndurchmesser mit gebräuchlichen Toleranz-
feldern.

2 Grenzmaße

Die Grenzmaße der Feingewinde mit den gebräuchlichen Toleranzfeldern (siehe DIN 13 Teil 14) sind aus den Gewinde-
Nennmaßen nach DIN 13 Teil 6 bis Teil 11 und den Abmaßen und Toleranzen nach DIN 13 Teil 15 errechnet worden.
Grenzmaße für Gewinde nach Toleranzfeldern, die in dieser Norm nicht enthalten sind, können aus den Abmaßen
nach DIN 13 Teil 27 errechnet werden.

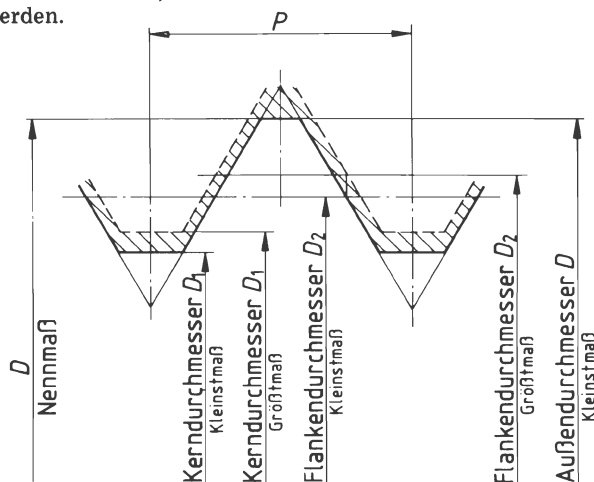


Bild 1. Muttergewinde in Toleranzlage H

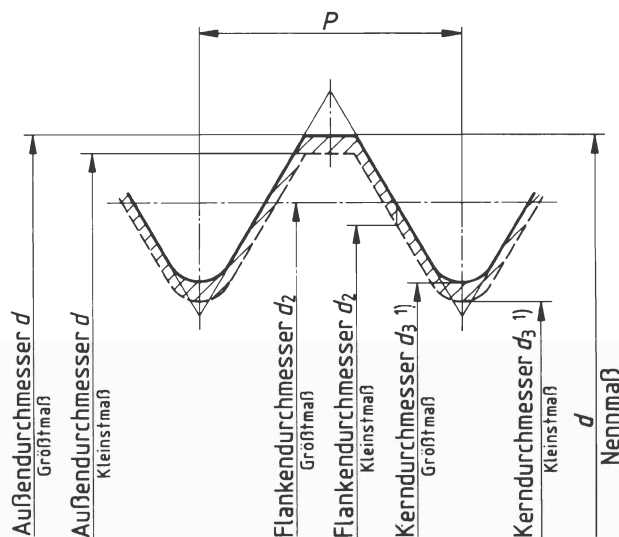


Bild 2. Bolzensgewinde in Toleranzlage h

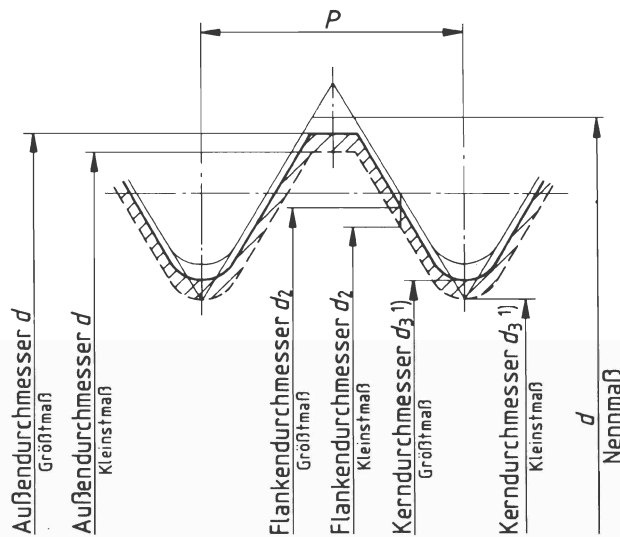


Bild 3. Bolzensgewinde in Toleranzlage g

1) Größtmaß mit $R = 0,144 P = H/6$, Kleinstmaß mit $R_{\min} = 0,125 P \approx H/7$ errechnet (siehe DIN 13 Teil 14)

Fortsetzung Seite 2 bis 10

Normenausschuß Gewinde (NGew) im DIN Deutsches Institut für Normung e.V.

Gewinde- Nenndurchmesser <i>d = D</i>	Steigung <i>P</i>	Muttergewinde						Bolzensgewinde						
		Toleranzfeld	Außen- durch- messer <i>D</i>	Flanken- durchmesser		Kern- durchmesser		Toleranzfeld	Außen- durchmesser		Flanken- durchmesser		Kern- durchmesser ¹⁾	
				<i>D</i> ₂		<i>D</i> ₁			<i>d</i>		<i>d</i> ₂		<i>d</i> ₃	
				Kleinst- maß	Kleinst- maß	Größt- maß	Kleinst- maß		Größt- maß	Größt- maß	Kleinst- maß	Größt- maß	Kleinst- maß	Größt- maß
252	1,5	5H	252,000	251,026	251,216	250,376	250,612	4h	252,000	251,850	251,026	250,914	250,160	249,990
	1,5	6H	252,000	251,026	251,262	250,376	250,676	6g	251,968	251,732	250,994	250,814	250,128	249,890
	1,5	7H	252,000	251,026	251,326	250,376	250,751							
	2	5H	252,000	250,701	250,925	249,835	250,135	4h	252,000	251,820	250,701	250,569	249,546	249,337
	2	6H	252,000	250,701	250,981	249,835	250,210	6g	251,962	251,682	250,663	250,451	249,508	249,219
	2	7H	252,000	250,701	251,056	249,835	250,310							
	3	5H	252,000	250,051	250,316	248,752	249,152	4h	252,000	251,764	250,051	249,891	248,319	248,043
	3	6H	252,000	250,051	250,386	248,752	249,252	6g	251,952	251,577	250,003	249,753	248,271	247,905
	3	7H	252,000	250,051	250,476	248,752	249,382	8g	251,952	251,352	250,003	249,603	248,271	247,755
	4	5H	252,000	249,402	249,702	247,670	248,145	4h	252,000	251,700	249,402	249,222	247,093	246,759
4	6H	252,000	249,402	249,777	247,670	248,270	6g	251,940	251,465	249,342	249,062	247,033	246,599	
4	7H	252,000	249,402	249,877	247,670	248,420	8g	251,940	251,190	249,342	248,892	247,033	246,429	
255	1,5	5H	255,000	254,026	254,216	253,376	253,612	4h	255,000	254,850	254,026	253,914	253,160	252,990
	1,5	6H	255,000	254,026	254,262	253,376	253,676	6g	254,968	254,732	253,994	253,814	253,128	252,890
	1,5	7H	255,000	254,026	254,326	253,376	253,751							
	2	5H	255,000	253,701	253,925	252,835	253,135	4h	255,000	254,820	253,701	253,569	252,546	252,337
	2	6H	255,000	253,701	253,981	252,835	253,210	6g	254,962	254,682	253,663	253,451	252,508	252,219
	2	7H	255,000	253,701	254,056	252,835	253,310							
	3	5H	255,000	253,051	253,316	251,752	252,152	4h	255,000	254,764	253,051	252,891	251,319	251,043
	3	6H	255,000	253,051	253,386	251,752	252,252	6g	254,952	254,577	253,003	252,753	251,271	250,905
	3	7H	255,000	253,051	253,476	251,752	252,382	8g	254,952	254,352	253,003	252,603	251,271	250,755
	4	5H	255,000	252,402	252,702	250,670	251,145	4h	255,000	254,700	252,402	252,222	250,093	249,759
	4	6H	255,000	252,402	252,777	250,670	251,270	6g	254,940	254,465	252,342	252,062	250,033	249,599
	4	7H	255,000	252,402	252,877	250,670	251,420	8g	254,940	254,190	252,342	251,892	250,033	249,429
	6	5H	255,000	251,103	251,438	248,505	249,135	4h	255,000	254,625	251,103	250,903	247,639	247,208
	6	6H	255,000	251,103	251,528	248,505	249,305	6g	254,920	254,320	251,023	250,708	247,559	247,013
	6	7H	255,000	251,103	251,633	248,505	249,505	8g	254,920	253,970	251,023	250,523	247,559	246,828
258	1,5	5H	258,000	257,026	257,216	256,376	256,612	4h	258,000	257,850	257,026	256,914	256,160	255,990
	1,5	6H	258,000	257,026	257,262	256,376	256,676	6g	257,968	257,732	256,994	256,814	256,128	255,890
	1,5	7H	258,000	257,026	257,326	256,376	256,751							
	2	5H	258,000	256,701	256,925	255,835	256,135	4h	258,000	257,820	256,701	256,569	255,546	255,337
	2	6H	258,000	256,701	256,981	255,835	256,210	6g	257,962	257,682	256,663	256,451	255,508	255,219
	2	7H	258,000	256,701	257,056	255,835	256,310							
	3	5H	258,000	256,051	256,316	254,752	255,152	4h	258,000	257,764	256,051	255,891	254,319	254,043
	3	6H	258,000	256,051	256,386	254,752	255,252	6g	257,952	257,577	256,003	255,753	254,271	253,905
	3	7H	258,000	256,051	256,476	254,752	255,382	8g	257,952	257,352	256,003	255,603	254,271	253,755
	4	5H	258,000	255,402	255,702	253,670	254,145	4h	258,000	257,700	255,402	255,222	253,093	252,759
	4	6H	258,000	255,402	255,777	253,670	254,270	6g	257,940	257,465	255,342	255,062	253,033	252,599
	4	7H	258,000	255,402	255,877	253,670	254,420	8g	257,940	257,190	255,342	254,892	253,033	252,429
260	1,5	5H	260,000	259,026	259,216	258,376	258,612	4h	260,000	259,850	259,026	258,914	258,160	257,990
	1,5	6H	260,000	259,026	259,262	258,376	258,676	6g	259,968	259,732	258,994	258,814	258,128	257,890
	1,5	7H	260,000	259,026	259,326	258,376	258,751							
	2	5H	260,000	258,701	258,925	257,835	258,135	4h	260,000	259,820	258,701	258,569	257,546	257,337
	2	6H	260,000	258,701	258,981	257,835	258,210	6g	259,962	259,682	258,663	258,451	257,508	257,219
	2	7H	260,000	258,701	259,056	257,835	258,310							
	3	5H	260,000	258,051	258,316	256,752	257,152	4h	260,000	259,764	258,051	257,891	256,319	256,043
	3	6H	260,000	258,051	258,386	256,752	257,252	6g	259,952	259,577	258,003	257,753	256,271	255,905
	3	7H	260,000	258,051	258,476	256,752	257,382	8g	259,952	259,352	258,003	257,603	256,271	255,755
	4	5H	260,000	257,402	257,702	255,670	256,145	4h	260,000	259,700	257,402	257,222	255,093	254,759
	4	6H	260,000	257,402	257,777	255,670	256,270	6g	259,940	259,465	257,342	257,062	255,033	254,599
	4	7H	260,000	257,402	257,877	255,670	256,420	8g	259,940	259,190	257,342	256,892	255,033	254,429
	6	5H	260,000	256,103	256,438	253,505	254,135	4h	260,000	259,625	256,103	255,903	252,639	252,208
	6	6H	260,000	256,103	256,528	253,505	254,305	6g	259,920	259,320	256,023	255,708	252,559	252,013
	6	7H	260,000	256,103	256,633	253,505	254,505	8g	259,920	258,970	256,023	255,523	252,559	251,828
	8	5H	260,000	254,804	255,179	251,340	252,140	4h	260,000	259,550	254,804	254,580	250,185	249,653
	8	6H	260,000	254,804	255,279	251,340	252,340	6g	259,900	259,190	254,704	254,349	250,085	249,422
	8	7H	260,000	254,804	255,404	251,340	252,590	8g	259,900	258,720	254,704	254,144	250,085	249,217
1) Siehe Seite 1														

1) Siehe Seite 1

Gewinde- Nenndurchmesser $d = D$	Steigung P	Muttergewinde						Bolzensgewinde						
		Toleranzfeld	Außen- durch- messer D	Flanken- durchmesser D_2		Kern- durchmesser D_1		Toleranzfeld	Außen- durchmesser d		Flanken- durchmesser d_2		Kern- durchmesser ¹⁾ d_3	
				Kleinst- maß	Größt- maß	Kleinst- maß	Größt- maß		Größt- maß	Kleinst- maß	Größt- maß	Kleinst- maß		
262	1,5	5H	262,000	261,026	261,216	260,376	260,612	4h	262,000	261,850	261,026	260,914	260,160	259,990
	1,5	6H	262,000	261,026	261,262	260,376	260,676	6g	261,968	261,732	260,994	260,814	260,128	259,890
	1,5	7H	262,000	261,026	261,326	260,376	260,751							
	2	5H	262,000	260,701	260,925	259,835	260,135	4h	262,000	261,820	260,701	260,569	259,546	259,337
	2	6H	262,000	260,701	260,981	259,835	260,210	6g	261,962	261,682	260,663	260,451	259,508	259,219
	2	7H	262,000	260,701	261,056	259,835	260,310							
	3	5H	262,000	260,051	260,316	258,752	259,152	4h	262,000	261,764	260,051	259,891	258,319	258,043
	3	6H	262,000	260,051	260,386	258,752	259,252	6g	261,952	261,577	260,003	259,753	258,271	257,905
	3	7H	262,000	260,051	260,476	258,752	259,382	8g	261,952	261,352	260,003	259,603	258,271	257,755
	4	5H	262,000	259,402	259,702	257,670	258,145	4h	262,000	261,700	259,402	259,222	257,093	256,759
	4	6H	262,000	259,402	259,777	257,670	258,270	6g	261,940	261,465	259,342	259,062	257,033	256,599
	4	7H	262,000	259,402	259,877	257,670	258,420	8g	261,940	261,190	259,342	258,892	257,033	256,429
265	1,5	5H	265,000	264,026	264,216	263,376	263,612	4h	265,000	264,850	264,026	263,914	263,160	262,990
	1,5	6H	265,000	264,026	264,262	263,376	263,676	6g	264,968	264,732	263,994	263,814	263,128	262,890
	1,5	7H	265,000	264,026	264,326	263,376	263,751							
	2	5H	265,000	263,701	263,925	262,835	263,135	4h	265,000	264,820	263,701	263,569	262,546	262,337
	2	6H	265,000	263,701	263,981	262,835	263,210	6g	264,962	264,682	263,663	263,451	262,508	262,219
	2	7H	265,000	263,701	264,056	262,835	263,310							
	3	5H	265,000	263,051	263,316	261,752	262,152	4h	265,000	264,764	263,051	262,891	261,319	261,043
	3	6H	265,000	263,051	263,386	261,752	262,252	6g	264,952	264,577	263,003	262,753	261,271	260,905
	3	7H	265,000	263,051	263,476	261,752	262,382	8g	264,952	264,352	263,003	262,603	261,271	260,755
	4	5H	265,000	262,402	262,702	260,670	261,145	4h	265,000	264,700	262,402	262,222	260,093	259,759
	4	6H	265,000	262,402	262,777	260,670	261,270	6g	264,940	264,465	262,342	262,062	260,033	259,599
	4	7H	265,000	262,402	262,877	260,670	261,420	8g	264,940	264,190	262,342	261,892	260,033	259,429
	6	5H	265,000	261,103	261,438	258,505	259,135	4h	265,000	264,625	261,103	260,903	257,639	257,208
	6	6H	265,000	261,103	261,528	258,505	259,305	6g	264,920	264,320	261,023	260,708	257,559	257,013
	6	7H	265,000	261,103	261,633	258,505	259,505	8g	264,920	263,970	261,023	260,523	257,559	256,828
268	1,5	5H	268,000	267,026	267,216	266,376	266,612	4h	268,000	267,850	267,026	266,914	266,160	265,990
	1,5	6H	268,000	267,026	267,262	266,376	266,676	6g	267,968	267,732	266,994	266,814	266,128	265,890
	1,5	7H	268,000	267,026	267,326	266,376	266,751							
	2	5H	268,000	266,701	266,925	265,835	266,135	4h	268,000	267,820	266,701	266,569	265,546	265,337
	2	6H	268,000	266,701	266,981	265,835	266,210	6g	267,962	267,682	266,663	266,451	265,508	265,219
	2	7H	268,000	266,701	267,056	265,835	266,310							
	3	5H	268,000	266,051	266,316	264,752	265,152	4h	268,000	267,764	266,051	265,891	264,319	264,043
	3	6H	268,000	266,051	266,386	264,752	265,252	6g	267,952	267,577	266,003	265,753	264,271	263,905
	3	7H	268,000	266,051	266,476	264,752	265,382	8g	267,952	267,352	266,003	265,603	264,271	263,755
	4	5H	268,000	265,402	265,702	263,670	264,145	4h	268,000	267,700	265,402	265,222	263,093	262,759
	4	6H	268,000	265,402	265,777	263,670	264,270	6g	267,940	267,465	265,342	265,062	263,033	262,599
	4	7H	268,000	265,402	265,877	263,670	264,420	8g	267,940	267,190	265,342	264,892	263,033	262,429
270	1,5	5H	270,000	269,026	269,216	268,376	268,612	4h	270,000	269,850	269,026	268,914	268,160	267,990
	1,5	6H	270,000	269,026	269,262	268,376	268,676	6g	269,968	269,732	268,994	268,814	268,128	267,890
	1,5	7H	270,000	269,026	269,326	268,376	268,751							
	2	5H	270,000	268,701	268,925	267,835	268,135	4h	270,000	269,820	268,701	268,569	267,546	267,337
	2	6H	270,000	268,701	268,981	267,835	268,210	6g	269,962	269,682	268,663	268,451	267,508	267,219
	2	7H	270,000	268,701	269,056	267,835	268,310							
	3	5H	270,000	268,051	268,316	266,752	267,152	4h	270,000	269,764	268,051	267,891	266,319	266,043
	3	6H	270,000	268,051	268,386	266,752	267,252	6g	269,952	269,577	268,003	267,753	266,271	265,905
	3	7H	270,000	268,051	268,476	266,752	267,382	8g	269,952	269,352	268,003	267,603	266,271	265,755
	4	5H	270,000	267,402	267,702	265,670	266,145	4h	270,000	269,700	267,402	267,222	265,093	264,759
	4	6H	270,000	267,402	267,777	265,670	266,270	6g	269,940	269,465	267,342	267,062	265,033	264,599
	4	7H	270,000	267,402	267,877	265,670	266,420	8g	269,940	269,190	267,342	266,892	265,033	264,429
	6	5H	270,000	266,103	266,438	263,505	264,135	4h	270,000	269,625	266,103	265,903	262,639	262,208
	6	6H	270,000	266,103	266,528	263,505	264,305	6g	269,920	269,320	266,023	265,708	262,559	262,013
	6	7H	270,000	266,103	266,633	263,505	264,505	8g	269,920	269,970	266,023	265,523	262,559	261,828
	8	5H	270,000	264,804	265,179	261,340	262,140	4h	270,000	269,550	264,804	264,580	260,185	259,653
	8	6H	270,000	264,804	265,279	261,340	262,340	6g	269,900	269,190	264,704	264,349	260,085	259,422
	8	7H	270,000	264,804	265,404	261,340	262,590	8g	269,900	268,720	264,704	264,144	260,085	259,217

1) Siehe Seite 1