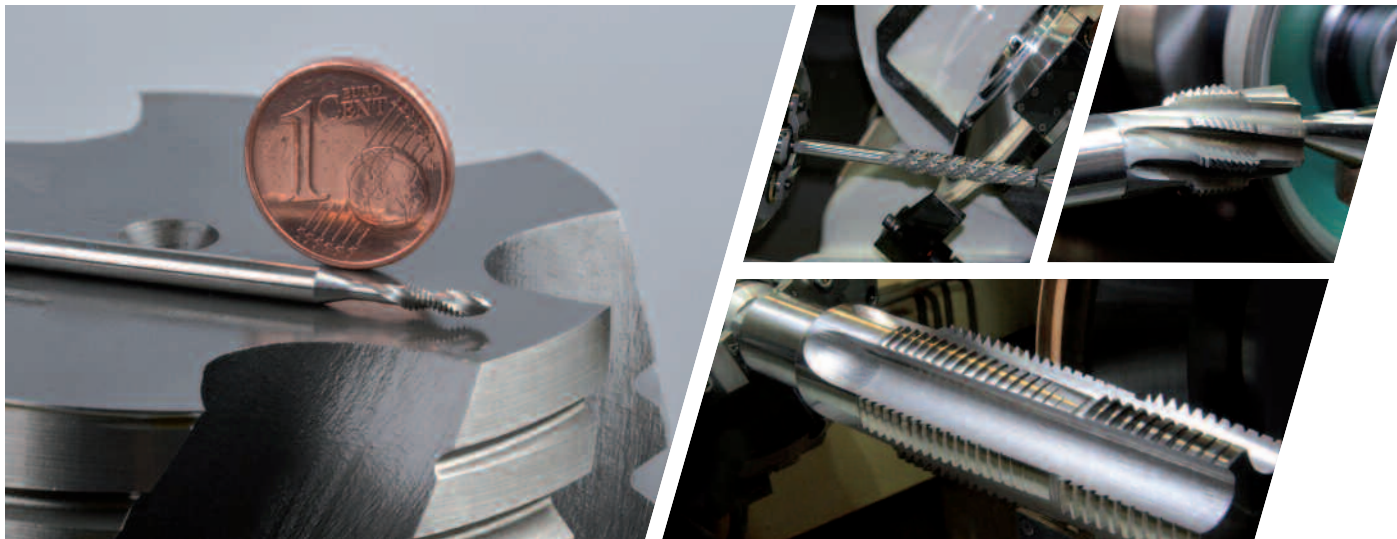


# HAHNREITER

GEWINDETECHNIK



**Anwendungs- und Kernlochtabeln  
für Gewindebohrer / Gewindeformer  
Selector Chart and Drill-Ø Charts  
for Taps / Cold Forming Taps**



Gewindewerkzeuge  
„Made in Germany“

Taps „Made in Germany“

**HAHNREITER - Seit 150 Jahren  
Gewindewerkzeuge für höchste Ansprüche**

***HAHNREITER - threading tools  
for highest demands since 150 years***

Kunden in mehr als 40 Ländern der Welt vertrauen auf die Qualität und Zuverlässigkeit von HAHNREITER Gewindewerkzeugen. Unser umfangreiches Standardprogramm bietet abgestimmte Lösungen für unterschiedlichste Bearbeitungsaufgaben bei der Gewindefertigung. Muss es noch spezieller sein? Wir fertigen Sonderwerkzeuge nach Ihren Anforderungen - Qualität und Zuverlässigkeit „Made in Germany“

Was dürfen wir für Sie tun?

Customers in more than 40 countries in the world trust in quality and reliability of HAHNREITER threading tools. Our comprehensive range of standard tools is adjusted to a big variety of threading applications. Is your demand even more specialised? HAHNREITER will supply tailor-made solutions for your application - Quality and reliability “Made in Germany”.

What can we do to support you?

Sonderwerkzeuge im Durchmesserbereich von 1 bis 250 mm

*Special tools  
diameters from 1 to 250 mm*

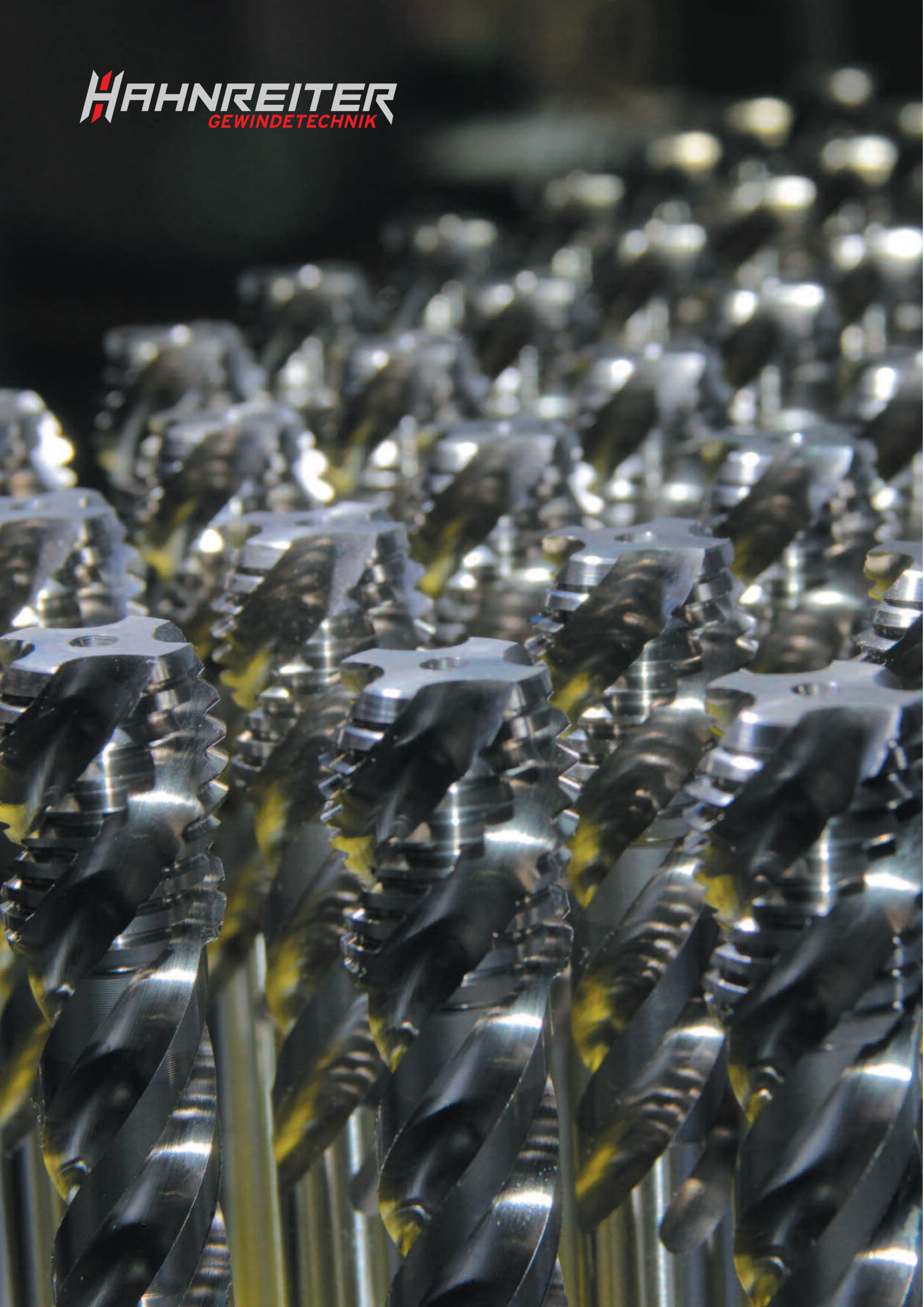






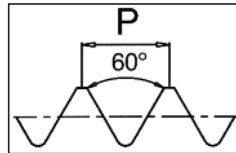
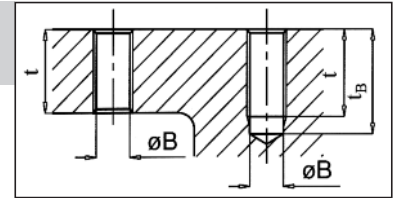


**HAHNREITER**  
GEWINDETECHNIK



# Gewinde - Kernloch-Ø und Kern-Ø Muttergewinde

## Drill-Ø for Threads and Minor-Ø of Nut Threads



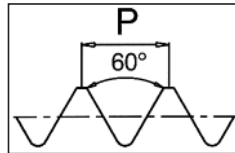
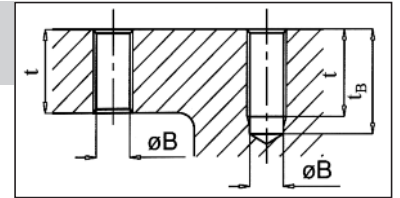
<b>M</b> Metr. ISO - Regelgewinde, 6H (5H) <sup>1)</sup> <i>Metric ISO - Coarse Thread 6H (5H)</i>					<b>MF</b> Metr. ISO - Feingewinde, 6H (4H) <sup>1)</sup> <i>Metric ISO - Fine Thread 6H (4H)</i>											
Ø	P [mm]	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø	x	P [mm]	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø	x	P [mm]	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø	
			Min.	Max.					Min.	Max.					Min.	Max.
M 1	0,25	0,75	0,729	0,785	M 2	x	0,25	1,75	1,729	1,774	M 27	x	1,5	25,50	25,376	25,676
M 1,1	0,25	0,85	0,829	0,885	M 2,2	x	0,25	1,95	1,929	1,974	M 27	x	2	25,00	24,835	25,210
M 1,2	0,25	0,95	0,929	0,985	M 2,5	x	0,35	2,15	2,121	2,221	M 28	x	1,5	26,50	26,376	26,676
M 1,4	0,3	1,10	1,075	1,142	M 3	x	0,35	2,65	2,621	2,721	M 28	x	2	26,00	25,835	26,210
M 1,6	0,35	1,25	1,221	1,321	M 3,5	x	0,35	3,15	3,121	3,221	M 30	x	1	29,00	28,917	29,153
M 1,7*	0,35	1,30	1,256	1,346	M 4	x	0,35	3,65	3,621	3,721	M 30	x	1,5	28,50	28,376	28,676
M 1,8	0,35	1,45	1,421	1,521	M 4	x	0,5	3,50	3,459	3,599	M 30	x	2	28,00	27,835	28,210
M 2	0,4	1,60	1,567	1,679	M 5	x	0,5	4,50	4,459	4,599	M 32	x	1,5	30,50	30,376	30,676
M 2,2	0,45	1,75	1,713	1,838	M 6	x	0,5	5,50	5,459	5,599	M 32	x	2	30,00	29,835	30,210
M 2,3*	0,4	1,90	1,795	1,920	M 6	x	0,75	5,20	5,188	5,378	M 33	x	1,5	31,50	31,376	31,676
M 2,5	0,45	2,05	2,013	2,138	M 7	x	0,75	6,20	6,188	6,378	M 33	x	2	31,00	30,835	31,210
M 2,6*	0,45	2,10	2,036	2,176	M 8	x	0,5	7,50	7,459	7,599	M 34	x	1,5	32,50	32,376	32,676
M 3	0,5	2,50	2,459	2,599	M 8	x	0,75	7,20	7,188	7,378	M 35	x	1,5	33,50	33,376	33,676
M 3,5	0,6	2,90	2,850	3,010	M 8	x	1	7,00	6,917	7,153	M 36	x	1,5	34,50	34,376	34,676
M 4	0,7	3,30	3,242	3,422	M 9	x	0,75	8,20	8,188	8,378	M 36	x	2	34,00	33,835	34,210
M 4,5	0,75	3,70	3,688	3,878	M 9	x	1	8,00	7,917	8,153	M 36	x	3	33,00	32,752	33,252
M 5	0,8	4,20	4,134	4,334	M 10	x	0,5	9,50	9,459	9,599	M 38	x	1,5	36,50	36,376	36,676
M 6	1	5,00	4,917	5,153	M 10	x	0,75	9,20	9,188	9,378	M 39	x	1,5	37,50	37,376	37,676
M 7	1	6,00	5,917	6,153	M 10	x	1	9,00	8,917	9,153	M 39	x	2	37,00	36,835	37,210
M 8	1,25	6,80	6,647	6,912	M 10	x	1,25	8,80	8,647	8,912	M 39	x	3	36,00	35,752	36,252
M 9	1,25	7,80	7,647	7,912	M 11	x	1	10,00	9,917	10,153	M 40	x	1,5	38,50	38,376	38,676
M 10	1,5	8,50	8,376	8,676	M 12	x	0,5	11,50	11,459	11,599	M 40	x	2	38,00	37,835	38,210
M 11	1,5	9,50	9,376	9,676	M 12	x	0,75	11,20	11,188	11,378	M 40	x	3	37,00	36,752	37,252
M 12	1,75	10,20	10,106	10,441	M 12	x	1	11,00	10,917	11,153	M 42	x	1,5	40,50	40,376	40,676
M 14	2	12,00	11,835	12,210	M 12	x	1,25	10,80	10,647	10,912	M 42	x	2	40,00	39,835	40,210
M 16	2	14,00	13,835	14,210	M 12	x	1,5	10,50	10,376	10,676	M 42	x	3	39,00	38,752	39,252
M 18	2,5	15,50	15,294	15,744	M 13	x	1	12,00	11,917	12,153	M 45	x	1,5	43,50	43,376	43,676
M 20	2,5	17,50	17,294	17,744	M 14	x	1	13,00	12,917	13,153	M 45	x	2	43,00	42,835	43,210
M 22	2,5	19,50	19,294	19,744	M 14	x	1,25	12,80	12,647	12,912	M 45	x	3	42,00	41,752	42,252
M 24	3	21,00	20,752	21,252	M 14	x	1,5	12,50	12,376	12,676	M 48	x	1,5	46,50	46,376	46,676
M 27	3	24,00	23,752	24,252	M 15	x	1	14,00	13,917	14,153	M 48	x	2	46,00	45,835	46,210
M 30	3,5	26,50	26,211	26,771	M 15	x	1,5	13,50	13,376	13,676	M 48	x	3	45,00	44,752	45,252
M 33	3,5	29,50	29,211	29,771	M 16	x	1	15,00	14,917	15,153	M 50	x	1,5	48,50	48,376	48,676
M 36	4	32,00	31,670	32,270	M 16	x	1,5	14,50	14,376	14,676	M 50	x	2	48,00	47,835	48,210
M 39	4	35,00	34,670	35,270	M 18	x	1	17,00	16,917	17,153	M 50	x	3	47,00	46,752	47,252
M 42	4,5	37,50	37,129	37,799	M 18	x	1,5	16,50	16,376	16,676	M 52	x	1,5	50,50	50,376	50,676
M 45	4,5	40,50	40,129	40,799	M 18	x	2	16,00	15,835	16,210	M 52	x	2	50,00	49,835	50,210
M 48	5	43,00	42,587	43,297	M 20	x	1	19,00	18,917	19,153	M 52	x	3	49,00	48,752	49,252
M 52	5	47,00	46,587	47,297	M 20	x	1,5	18,50	18,376	18,676	M 54	x	1,5	52,50	52,376	52,676
M 56	5,5	50,50	50,046	50,796	M 20	x	2	18,00	17,835	18,210	M 56	x	1,5	54,50	54,376	54,676
M 60	5,5	54,50	54,046	54,796	M 22	x	1	21,00	20,917	21,153	M 56	x	2	54,00	53,835	54,210
M 64	6	58,00	57,505	58,305	M 22	x	1,5	20,50	20,376	20,676	M 56	x	3	53,00	52,752	53,252
M 68	6	62,00	61,505	62,305	M 22	x	2	20,00	19,835	20,210	M 58	x	1,5	56,50	56,376	56,676
					M 24	x	1	23,00	22,917	23,153	M 60	x	1,5	58,50	58,376	58,676
					M 24	x	1,5	22,50	22,376	22,676	M 60	x	2	58,00	57,835	58,210
					M 24	x	2	22,00	21,835	22,210	M 60	x	3	57,00	56,752	57,252
					M 25	x	1	24,00	23,917	24,153	M 64	x	2	62,00	61,835	62,210
					M 25	x	1,5	23,50	23,376	23,676	M 64	x	4	60,00	59,670	60,270
					M 26	x	1,5	24,50	24,376	24,676						

\* metrisches - DIN Profil / metric - DIN profile

1) Kernloch-Ø und Muttergewinde Kern-Ø gem. DIN 336, Toleranz 5H bis M 1,4, Toleranz 4H für Feingewinde mit Steigung P = 0,25  
Drill-Ø and minor-Ø of nut thread according to DIN 336, tolerance 5H up to M 1,4, tolerance 4H for fine thread with pitch P = 0,25



**Gewinde - Kernloch-Ø und Kern-Ø Muttergewinde**  
**Drill-Ø for Threads and Minor-Ø of Nut Threads**



UNC Unified Grobgewinde <sup>1)</sup> Unified Coarse Thread					UNF Unified Feingewinde <sup>1)</sup> Unified Fine Thread					UNEF Unified Extra Feingewinde <sup>2)</sup> Unified Extra Fine Thread										
Ø"	Gg/1" TPI	Ø	Kernloch Drill-Ø		Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø"	Gg/1" TPI	Ø	Kernloch Drill-Ø		Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø"	Gg/1" TPI	Ø	Kernloch Drill-Ø		Muttergewinde Kern-Ø Nut Thread Minor-Ø	
			Min.	Max.	Min.	Max.				Min.	Max.	Min.	Max.				Min.	Max.		
Nr. 1	- 64	1,854	1,55	1,425	1,582	Nr. 1	- 72	1,854	1,55	1,473	1,613	Nr. 12	- 32	5,486	4,75	4,627	4,816			
Nr. 2	- 56	2,184	1,85	1,694	1,872	Nr. 2	- 64	2,184	1,85	1,755	1,913	1/4	- 32	6,350	5,60	5,491	5,679			
Nr. 3	- 48	2,515	2,10	1,941	2,146	Nr. 3	- 56	2,515	2,15	2,024	2,197	5/16	- 32	7,938	7,20	7,078	7,267			
Nr. 4	- 40	2,845	2,35	2,156	2,385	Nr. 4	- 48	2,845	2,40	2,271	2,459	3/8	- 32	9,525	8,80	8,666	8,854			
Nr. 5	- 40	3,175	2,65	2,487	2,697	Nr. 5	- 44	3,175	2,70	2,550	2,741	7/16	- 28	11,113	10,25	10,130	10,344			
Nr. 6	- 32	3,505	2,85	2,642	2,896	Nr. 6	- 40	3,505	2,95	2,819	3,023	1/2	- 28	12,700	11,80	11,718	11,932			
Nr. 8	- 32	4,166	3,50	3,302	3,531	Nr. 8	- 36	4,166	3,50	3,404	3,607	9/16	- 24	14,288	13,30	13,142	13,389			
Nr. 10	- 24	4,826	3,90	3,683	3,962	Nr. 10	- 32	4,826	4,10	3,962	4,166	5/8	- 24	15,875	14,75	14,729	14,976			
Nr. 12	- 24	5,486	4,50	4,343	4,597	Nr. 12	- 28	5,486	4,60	4,496	4,724	11/16	- 24	17,463	16,50	16,317	16,564			
1/4	- 20	6,350	5,10	4,976	5,268	1/4	- 28	6,350	5,50	5,367	5,580	3/4	- 20	19,050	17,75	17,675	17,967			
5/16	- 18	7,938	6,60	6,411	6,734	5/16	- 24	7,938	6,90	6,792	7,038	13/16	- 20	20,638	19,50	19,263	19,555			
3/8	- 16	9,525	8,00	7,805	8,164	3/8	- 24	9,525	8,50	8,379	8,626	7/8	- 20	22,225	21,00	20,850	21,142			
7/16	- 14	11,112	9,40	9,149	9,550	7/16	- 20	11,112	9,90	9,738	10,030	15/16	- 20	23,813	22,50	22,438	22,730			
1/2	- 13	12,700	10,80	10,584	11,013	1/2	- 20	12,700	11,50	11,326	11,618	1	- 20	25,400	24,25	24,025	24,317			
9/16	- 12	14,288	12,20	11,996	12,456	9/16	- 18	14,288	12,90	12,761	13,084	1.1/16	- 18	26,988	25,75	25,460	25,781			
5/8	- 11	15,875	13,50	13,376	13,868	5/8	- 18	15,875	14,50	14,348	14,671	1.1/8	- 18	28,575	27,25	27,047	27,369			
3/4	- 10	19,050	16,50	16,299	16,833	3/4	- 16	19,050	17,50	17,330	17,689	1.3/16	- 18	30,163	28,75	28,635	28,956			
7/8	- 9	22,225	19,50	19,169	19,748	7/8	- 14	22,225	20,40	20,262	20,663	1.1/4	- 18	31,750	30,50	30,222	30,544			
1	- 8	25,400	22,25	21,963	22,598	1	- 12	25,400	23,25	23,109	23,569	1.5/16	- 18	33,338	32,00	31,810	32,131			
1.1/8	- 7	28,575	25,00	24,648	25,349	1.1/8	- 12	28,575	26,50	26,284	26,744	1.3/8	- 18	34,925	33,50	33,397	33,719			
1.1/4	- 7	31,750	28,00	27,823	28,524	1.1/4	- 12	31,750	29,50	29,459	29,919	1.7/16	- 18	36,513	35,20	34,985	35,306			
1.3/8	- 6	34,925	30,75	30,343	31,120	1.3/8	- 12	34,925	32,75	32,634	33,094	1.1/2	- 18	38,100	36,80	36,572	36,894			
1.1/2	- 6	38,100	34,00	33,518	34,295	1.1/2	- 12	38,100	36,00	35,809	36,269	1.9/16	- 18	39,688	38,40	38,160	38,481			
1.3/4	- 5	44,450	39,50	38,951	39,814							1.5/8	- 18	41,275	40,00	39,747	40,069			
2	- 4,5	50,800	45,00	44,689	45,598							1.11/16	- 18	42,863	41,50	41,335	41,656			

1) Kernloch-Ø und Muttergewinde Kern-Ø gem. DIN 336  
 Drill-Ø and minor-Ø of nut thread according to DIN 336

2) Mutterkern-Ø gem. ANSI B1.1 (D<sub>1,min</sub> = D<sub>1</sub> Nennmaß)  
 Minor-Ø of nut thread accord. to ANSI B1.1

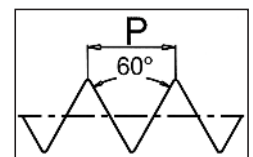
**UN – 8 - Gang Gewindereihe<sup>3)</sup> Unified Thread - 8 TPI**

Ø"	Gg/1" TPI	Ø	Kernloch Drill-Ø		Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø"	Gg/1" TPI	Ø	Kernloch Drill-Ø		Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø"	Gg/1" TPI	Ø	Kernloch Drill-Ø		Muttergewinde Kern-Ø Nut Thread Minor-Ø	
			Min.	Max.	Min.	Max.				Min.	Max.	Min.	Max.							
1.1/8	- 8	28,575	25,50	25,138	25,773	1.1/2	- 8	38,100	35,00	34,663	35,298	1.7/8	- 8	47,625	44,50	44,188	44,823			
1.1/4	- 8	31,750	28,75	28,313	28,948	1.5/8	- 8	41,275	38,00	37,838	38,473	2	- 8	50,800	47,75	47,363	47,998			
1.3/8	- 8	34,925	31,75	31,488	32,123	1.3/4	- 8	44,450	41,50	41,013	41,648									

3) Mutterkern-Ø gem. ANSI B1.1 (D<sub>1,min</sub> = D<sub>1</sub> Nennmaß) / Minor-Ø of nut thread accord. to ANSI B1.1

**Zylindrische Amerikanische Rohrgewinde**  
**Cylindrical American Pipe Threads**

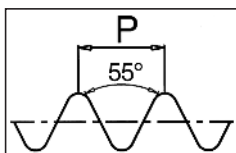
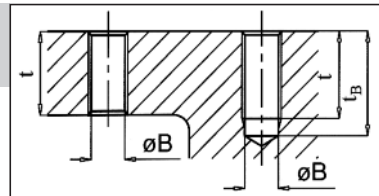
Ø"	Gg/1" TPI	Allgemeine Anwendung / general purpose						Trockendichtende Gewinde / Dryseal				
		NPSC <sup>4)</sup>		NPSM <sup>4)</sup>		NPSF <sup>5)</sup>		NPSI <sup>5)</sup>		Kernloch Drill-Ø	ØB	
		Kern-Ø Minor-Ø Min.	Kernloch Drill-Ø ØB	Kern-Ø Minor-Ø Min.	Kernloch Drill-Ø ØB	Kern-Ø Minor-Ø Min.	Kernloch Drill-Ø ØB	Kern-Ø Minor-Ø Min.	Kernloch Drill-Ø ØB			
1/8	27	8,687	8,80	9,093	9,246	9,10	8,651	8,70	8,710	8,75		
1/4	18	11,176	11,40	11,887	12,217	12,00	11,232	11,30	11,321	11,40		
3/8	18	14,656	14,80	15,316	15,545	15,50	14,671	14,70	14,760	14,85		
1/2	14	18,161	18,50	18,974	19,279	19,00	18,118	18,20	18,237	18,30		
3/4	14	23,495	23,80	24,333	24,638	24,50	23,465	23,50	23,579	23,70		
1	11,5	29,489	29,90	30,505	30,759	30,50	29,464	29,50	29,604	29,70		
1.1/4	11,5	38,252	38,60	39,268	39,497	39,40						
1.1/2	11,5	44,323	44,70	45,339	45,568	45,50						
2	11,5	56,363	56,70	57,379	57,607	57,50						



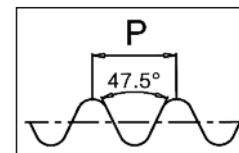
4) Mutterkern-Ø gem. ANSI B1.20.1 / Minor-Ø of nut thread accord. to ANSI B1.20.1  
 5) Mutterkern-Ø gem. ANSI B1.20.3 / Minor-Ø of nut thread accord. to ANSI B1.20.3

# Gewinde - Kernloch-Ø und Kern-Ø Muttergewinde

## Drill-Ø for Threads and Minor-Ø of Nut Threads

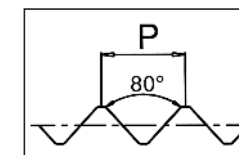
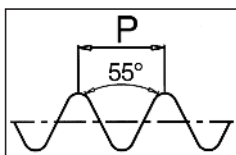


BSW Whitworth Grobgewinde <sup>1)</sup> Whitworth Coarse Thread					BSF Whitworth Feingewinde <sup>1)</sup> Whitworth Fine Thread					BA British-Association <sup>2)</sup>					
Ø" - Gg/1"	Ø	Kernloch Drill-Ø	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø" - Gg/1"	Ø	ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø" - P [mm]	Ø	ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		
			Min.	Max.				Min.	Max.				Min.	Max.	
1/16 - 60	1,588	1,20	1,045	1,232	3/16 - 32	4,763	3,90	3,747	4,006	BA 10	0,35	1,70	1,35	1,280	1,410
3/32 - 48	2,381	1,90	1,704	1,911	7/32 - 28	5,556	4,60	4,394	4,676	BA 9	0,39	1,90	1,50	1,430	1,575
1/8 - 40	3,175	2,50	2,362	2,591	1/4 - 26	6,350	5,30	5,100	5,398	BA 8	0,43	2,20	1,80	1,680	1,840
5/32 - 32	3,969	3,20	2,952	3,213	9/32 - 26	7,144	6,10	5,893	6,190	BA 7	0,48	2,50	2,00	1,920	2,100
3/16 - 24	4,763	3,60	3,406	3,744	5/16 - 22	7,938	6,80	6,459	6,817	BA 6	0,53	2,80	2,30	2,160	2,360
1/4 - 20	6,350	5,10	4,724	5,156	3/8 - 20	9,525	8,30	7,899	8,331	BA 5	0,59	3,20	2,60	2,490	2,710
5/16 - 18	7,938	6,50	6,129	6,589	7/16 - 18	11,113	9,70	9,304	9,764	BA 4	0,66	3,60	3,00	2,810	3,060
3/8 - 16	9,525	7,90	7,493	7,988	1/2 - 16	12,700	11,10	10,668	11,163	BA 3	0,73	4,10	3,40	3,220	3,495
7/16 - 14	11,113	9,30	8,791	9,332	9/16 - 16	14,288	12,70	12,256	12,751	BA 2	0,81	4,70	4,00	3,730	4,035
1/2 - 12	12,700	10,50	9,987	10,589	5/8 - 14	15,875	14,00	13,553	14,094	BA 1	0,90	5,30	4,50	4,220	4,560
9/16 - 12	14,288	12,00	11,575	12,177	11/16 - 14	17,463	15,50	15,141	15,682	BA 0	1,00	6,00	5,10	4,800	5,175
5/8 - 11	15,875	13,50	12,918	13,559	3/4 - 12	19,050	16,75	16,337	16,939						
11/16 - 11	17,463	15,00	14,506	15,146	7/8 - 11	22,225	19,75	19,268	19,909						
3/4 - 10	19,050	16,40	15,799	16,485	1 - 10	25,400	22,75	22,149	22,835						
7/8 - 9	22,225	19,25	18,613	19,355	1.1/8 - 9	28,575	25,50	24,963	25,705						
1 - 8	25,400	22,00	21,336	22,149	1.1/4 - 9	31,750	28,75	28,138	28,880						
1.1/8 - 7	28,575	24,75	23,927	24,831	1.3/8 - 8	34,925	31,50	30,861	31,674						
1.1/4 - 7	31,750	27,75	27,102	28,006	1.1/2 - 8	38,100	34,80	34,036	34,849						
1.3/8 - 6	34,925	30,50	29,504	30,528											
1.1/2 - 6	38,100	33,50	32,680	33,703											
1.5/8 - 5	41,275	35,50	34,769	35,963											
1.3/4 - 5	44,450	39,00	37,943	39,136											
2 - 4,5	50,800	44,50	43,571	44,877											



1) Mutterkern-Ø gem. BS 84  
Minor-Ø of nut accord. to BS 84

2) Mutterkern-Ø gem. BS 93  
Minor-Ø of nut accord. to BS 93

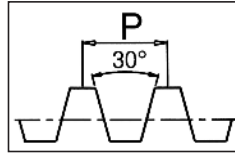
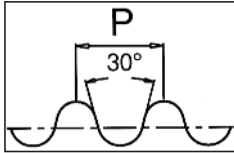
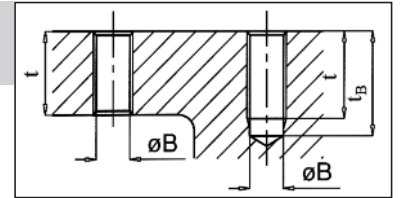


G Whitworth Rohrgewinde <sup>3)</sup> Whitworth Pipe Thread					Rp Whitworth Rohrgewinde <sup>3)</sup> Whitworth Pipe Thread					PG Stahlpanzerrohr-Gewinde <sup>4)</sup> Steel Conduit Thread							
Ø" - Gg/1"	Ø	Kernloch Drill-Ø	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø" - Gg/1"	Ø	ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø" - Gg/1"	Ø	ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø				
			Min.	Max.				Min.	Max.				Min.	Max.			
G 1/16	28	7,723	6,80	6,516	6,843	Rp 1/16	28	7,723	6,55	6,490	6,632	Pg 7	20	12,50	11,35	11,28	11,43
G 1/8	28	9,728	8,80	8,566	8,848	Rp 1/8	28	9,728	8,60	8,495	8,637	Pg 9	18	15,20	13,95	13,86	14,01
G 1/4	19	13,157	11,80	11,445	11,890	Rp 1/4	19	13,157	11,50	11,341	11,549	Pg 11	18	18,60	17,35	17,26	17,41
G 3/8	19	16,662	15,25	14,950	15,395	Rp 3/8	19	16,662	15,00	14,846	15,054	Pg 13,5	18	20,40	19,15	19,06	19,21
G 1/2	14	20,955	19,00	18,631	19,172	Rp 1/2	14	20,955	18,50	18,489	18,773	Pg 16	18	22,50	21,25	21,16	21,31
G 5/8	14	22,911	21,00	20,587	21,128							Pg 21	16	28,30	26,90	26,78	27,03
G 3/4	14	26,441	24,50	24,117	24,658	Rp 3/4	14	26,441	24,00	23,975	24,259	Pg 29	16	37,00	35,60	35,48	35,73
G 7/8	14	30,201	28,25	27,877	28,418							Pg 36	16	47,00	45,60	45,48	45,73
G 1	11	33,249	30,75	30,291	30,931	Rp 1	11	33,249	30,25	30,111	30,471	Pg 42	16	54,00	52,60	52,48	52,73
G 1.1/8	11	37,897	35,50	34,939	35,579	Rp 1.1/4	11	41,910	39,00	38,772	39,132	Pg 48	16	59,30	57,90	57,78	58,03
G 1.1/4	11	41,910	39,50	38,952	39,592												
G 1.3/8	11	44,320	42,00	41,365	42,005	Rp 1.1/2	11	47,803	45,00	44,665	45,025						
G 1.1/2	11	47,803	45,25	44,845	45,485												
G 1.3/4	11	53,746	51,10	50,788	51,428	Rp 2	11	59,614	56,50	56,476	56,836						
G 2	11	59,614	57,00	56,656	57,296												
G 2.1/4	11	65,710	63,10	62,752	63,392	Rp 2.1/2	11	75,184	72,25	72,083	72,443						
G 2.1/2	11	75,184	72,50	72,226	72,866												
G 2.3/4	11	81,534	79,00	78,576	79,216	Rp 3	11	87,884	85,00	84,783	85,143						
G 3	11	87,884	85,50	84,926	85,566												
G 3.1/2	11	100,330	98,00	97,372	98,012	Rp 4	11	113,030	110,00	109,860	110,289						
G 4	11	113,030	110,50	110,072	110,712												

3) Kernloch-Ø und Muttergewinde Kern-Ø gem. DIN 336  
Drill-Ø and minor-Ø of nut thread according to DIN 336

4) Mutterkern-Ø gem. DIN 40430  
Minor-Ø of nut thread accord. to DIN 40430

# Gewinde - Kernloch-Ø und Kern-Ø Muttergewinde Drill-Ø for Threads and Minor-Ø of Nut Threads

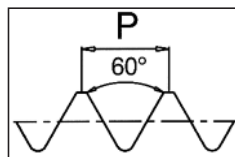


Rd Rundgewinde <sup>1)</sup> Round Thread					Tr Metrisches ISO-Trapezgewinde <sup>2)</sup> Metric ISO Trapezoidal Thread											
Ø	- Gg/1" TPI	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø	x	P [mm]	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø	x	P [mm]	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø	
			Min.	Max.					Min.	Max.					Min.	Max.
Rd 8 x 1/10	8,254	6,00	5,714	6,274	Tr 8 x 1,5		6,60	6,500	6,690	Tr 20 x 2		18,20	18,000	18,236		
Rd 9 x 1/10	9,254	7,00	6,714	7,274	Tr 8 x 2		6,20	6,000	6,236	Tr 20 x 4		16,25	16,000	16,375		
Rd 10 x 1/10	10,254	8,00	7,714	8,274	Tr 9 x 1,5		7,60	7,500	7,690	Tr 22 x 3		19,25	19,000	19,315		
Rd 11 x 1/10	11,254	9,00	8,714	9,274	Tr 9 x 2		7,20	7,000	7,236	Tr 22 x 5		17,25	17,000	17,450		
Rd 12 x 1/10	12,254	10,00	9,714	10,274	Tr 10 x 1,5		8,60	8,500	8,690	Tr 24 x 3		21,25	21,000	21,315		
Rd 14 x 1/8	14,318	11,50	11,142	11,812	Tr 10 x 2		8,20	8,000	8,236	Tr 24 x 5		19,25	19,000	19,450		
Rd 16 x 1/8	16,318	13,50	13,142	13,812	Tr 10 x 3 <sup>3)</sup>		7,50			Tr 26 x 3		23,25	23,000	23,315		
Rd 18 x 1/8	18,318	15,50	15,142	15,812	Tr 11 x 2		9,20	9,000	9,236	Tr 26 x 5		21,25	21,000	21,450		
Rd 20 x 1/8	20,318	17,50	17,142	17,812	Tr 11 x 3		8,25	8,000	8,315	Tr 28 x 3		25,25	25,000	25,315		
Rd 22 x 1/8	22,318	19,50	19,142	19,812	Tr 12 x 2		10,20	10,000	10,236	Tr 28 x 5		23,25	23,000	23,450		
Rd 24 x 1/8	24,318	21,50	21,142	21,812	Tr 12 x 3		9,25	9,000	9,315	Tr 30 x 3		27,25	27,000	27,315		
Rd 26 x 1/8	26,318	23,50	23,142	23,812	Tr 14 x 2		12,20	12,000	12,236	Tr 30 x 6		24,25	24,000	24,500		
Rd 28 x 1/8	28,317	25,50	25,142	25,812	Tr 14 x 3		11,25	11,000	11,315	Tr 32 x 6		26,25	26,000	26,500		
Rd 30 x 1/8	30,318	27,50	27,142	27,812	Tr 14 x 4 <sup>3)</sup>		10,50			Tr 36 x 6		30,25	30,000	30,500		
Rd 32 x 1/8	32,318	29,50	29,142	29,812	Tr 16 x 2		14,20	14,000	14,236	Tr 40 x 7		33,50	33,000	33,560		
					Tr 16 x 4		12,25	12,000	12,375	Tr 42 x 7		35,50	35,000	35,560		
					Tr 18 x 2		16,20	16,000	16,236	Tr 44 x 7		37,50	37,000	37,560		
					Tr 18 x 4		14,25	14,000	14,375							

1) Mutterkern-Ø gem. DIN 405  
Minor-Ø of nut thread accord. to DIN 405

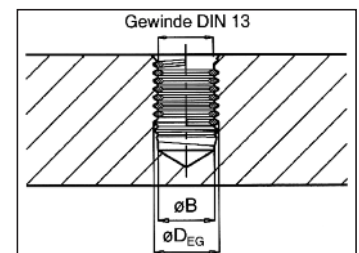
2) Mutterkern-Ø gem. DIN 103 / Minor-Ø of nut thread accord. to DIN 103

3) Tr 10 x 3 und Tr 14 x 4 in DIN 103 nicht mehr enthalten und sollten für Neukonstruktionen nicht mehr verwendet werden. / Tr 10 x 3 and Tr 14 x 4 not included in DIN 103, should not be used for new design.



EGM Metrisches Einsatz-Gewinde - für Gewindeeinsätze aus Draht <sup>4)</sup> Metric Insert Thread - for Wire Inserts																			
Ø	P [mm]	Außen-Ø Out-side-Ø Min.	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø	x	P [mm]	Außen-Ø Out-side-Ø Min.	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø		Ø	x	P [mm]	Außen-Ø Out-side-Ø Min.	Kernloch Drill-Ø ØB	Muttergewinde Kern-Ø Nut Thread Minor-Ø	
				Min.	Max.						Min.	Max.						Min.	Max.
EG M 2	0,4	2,520	2,10	2,087	2,177	EG M 8 x 1		9,300	8,30	8,217	8,407	EG M 30 x 2		32,598	30,50	30,433	30,733		
EG M 2,5	0,45	3,084	2,65	2,597	2,697	EG M 9 x 1		10,300	9,30	9,217	9,407	EG M 30 x 3		33,897	31,00	30,649	31,049		
EG M 3	0,5	3,650	3,15	3,108	3,220	EG M 10 x 1		11,300	10,30	10,217	10,407	EG M 33 x 2		35,598	33,50	33,433	33,733		
EG M 3,5	0,6	4,280	3,70	3,630	3,755	EG M 10 x 1,25		11,624	10,40	10,271	10,483	EG M 33 x 3		36,897	34,00	33,649	34,049		
EG M 4	0,7	4,910	4,20	4,152	4,292	EG M 11 x 1		12,300	11,30	11,217	11,407	EG M 36 x 2		38,598	36,50	36,433	36,733		
EG M 5	0,8	6,040	5,25	5,174	5,334	EG M 12 x 1		13,300	12,30	12,217	12,407	EG M 36 x 3		39,897	37,00	36,649	37,049		
EG M 6	1	7,300	6,30	6,217	6,407	EG M 12 x 1,25		13,624	12,40	12,271	12,483	EG M 39 x 2		41,598	39,50	39,433	39,733		
EG M 7	1	8,300	7,30	7,217	7,407	EG M 12 x 1,5		13,948	12,50	12,324	12,560	EG M 39 x 3		42,897	40,00	39,649	40,049		
EG M 8	1,25	9,624	8,40	8,271	8,483	EG M 14 x 1		15,300	14,30	14,217	14,407	EG M 42 x 2		44,598	42,50	42,433	42,733		
EG M 10	1,5	11,948	10,50	10,324	10,560	EG M 14 x 1,25		15,624	14,40	14,271	14,483	EG M 42 x 3		45,897	43,00	42,649	43,049		
EG M 12	1,75	14,274	12,50	12,379	12,644	EG M 14 x 1,5		15,948	14,50	14,324	14,560	EG M 42 x 4		47,196	43,00	42,866	43,341		
EG M 14	2	16,598	14,50	14,433	14,733	EG M 15 x 1,5		16,948	15,50	15,324	15,560	EG M 45 x 2		47,598	45,50	45,433	45,733		
EG M 16	2	18,598	16,50	16,433	16,733	EG M 16 x 1,5		17,948	16,50	16,324	16,560	EG M 45 x 3		48,897	46,00	45,649	46,049		
EG M 18	2,5	21,248	18,75	18,541	18,896	EG M 18 x 1,5		19,948	18,50	18,324	18,560	EG M 48 x 2		50,598	48,50	48,433	48,733		
EG M 20	2,5	23,248	20,75	20,541	20,896	EG M 18 x 2		20,598	18,50	18,433	18,733	EG M 48 x 3		51,897	49,00	48,649	49,049		
EG M 22	2,5	25,248	22,75	22,541	22,896	EG M 20 x 1,5		21,948	20,50	20,324	20,560								
EG M 24	3	27,897	24,75	24,649	25,049	EG M 20 x 2		22,598	20,50	20,433	20,733								
EG M 27	3	30,897	27,75	27,649	28,049	EG M 22 x 1,5		23,948	22,50	22,324	22,560								
EG M 30	3,5	34,546	31,00	30,757	31,207	EG M 22 x 2		24,598	22,50	22,433	22,733								
EG M 33	3,5	37,546	34,00	33,757	34,207	EG M 24 x 1,5		25,948	24,50	24,324	24,560								
EG M 36	4	41,196	37,00	36,866	37,341	EG M 24 x 2		26,598	24,50	24,433	24,733								
EG M 39	4	44,196	40,00	39,866	40,341	EG M 26 x 1,5		27,948	26,50	26,324	26,560								
EG M 42	4,5	47,846	43,25	42,975	43,505	EG M 27 x 1,5		28,948	27,50	27,324	27,560								
EG M 45	4,5	50,846	46,25	45,975	46,505	EG M 27 x 2		29,598	27,50	27,433	27,733								
EG M 48	5	54,495	49,50	49,082	49,642	EG M 28 x 1,5		29,948	28,50	28,324	28,560								
EG M 52	5	58,495	53,50	53,082	53,642	EG M 30 x 1,5		31,948	30,50	30,324	30,560								

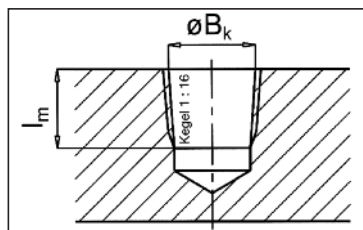
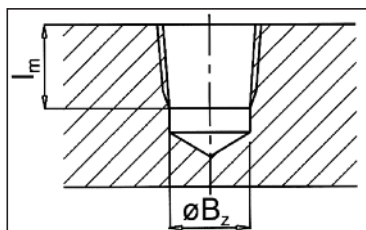
4) Maße des Muttergewindes gem. DIN 8140 Teil 2 / Sizes of nut thread accord. to DIN 8140 part 2





# Gewinde - Kernloch-Ø für konische Rohrgewinde

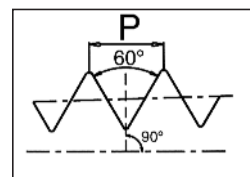
## Drill-Ø for Taper Pipe Threads



NPT amerikanisches kegeliges Rohrgewinde <sup>1)</sup> <i>American Taper Pipe Thread</i>						NPTF amerikanisches kegeliges Rohrgewinde <i>American Taper Pipe Thread</i>					
Ø"	Gg/1" TPI	Ø (Lm)	lm <sup>2)</sup>	Kernloch Drill-Ø		Ø"	Gg/1" TPI	Ø (Lm)	lm <sup>2)</sup>	Kernloch Drill-Ø	
				zyl. Bz cyl. Bz	kon. BK taper BK					zyl. Bz cyl. Bz	kon. BK taper BK
NPT 1/16	27	7,84	9,20	6,20	6,39	NPTF 1/16	27	7,84	9,20	6,20	6,42
NPT 1/8	27	10,18	9,30	8,50	8,74	NPTF 1/8	27	10,18	9,30	8,50	8,76
NPT 1/4	18	13,54	13,50	11,10	11,36	NPTF 1/4	18	13,54	13,50	11,00	11,40
NPT 3/8	18	16,98	13,90	14,55	14,80	NPTF 3/8	18	16,98	13,90	14,50	14,84
NPT 1/2	14	21,14	18,10	18,00	18,32	NPTF 1/2	14	21,14	18,10	17,80	18,33
NPT 3/4	14	26,49	18,60	23,25	23,67	NPTF 3/4	14	26,49	18,60	23,10	23,68
NPT 1	11,5	33,14	22,30	29,20	29,69	NPTF 1	11,5	33,14	22,30	29,10	29,72
NPT 1.1/4	11,5	41,90	22,80	37,95	38,45	NPTF 1.1/4	11,5	41,90	22,80	37,80	38,48
NPT 1.1/2	11,5	47,97	22,80	44,00	44,52	NPTF 1.1/2	11,5	47,97	22,80	43,90	44,55
NPT 2	11,5	60,00	22,80	56,00	56,56	NPTF 2	11,5	60,00	22,80	55,90	56,59

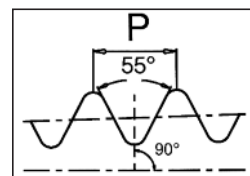
1) Für Serienfertigung empfehlen wir die Kernlöcher konisch vorzuarbeiten (BK)  
*For mass production preparation of a taper core hole is recommended.*

2) Die Messlänge L<sub>m</sub> von HAHNREITER Standard Gewindebohrern umfasst die Einschraubängen L<sub>1</sub> (Verschraubung von Hand) und L<sub>3</sub> (Kraftverschraubung) nach ANSI B1.20.1 und ANSI B1.20.3 sowie eine Anschnittlänge von 2-3 Gewindegängen. Bei Sacklöchern muss zur Sicherheit min. 1-2 Gewindegänge tiefer gebohrt werden.  
*Gauge length L<sub>m</sub> of HAHNREITER standard taps covers L<sub>1</sub> (screwing by hand) and L<sub>3</sub> (screwing by means of wrenching tools) accord. to ANSI B1.20.1 and ANSI B1.20.3 and chamfer length of 2-3 threads. Blind holes have to machined 1-2 threads deeper for safety.*



Rc kegeliges Whitworth-Rohrgewinde Kegel 1:16, gem. ISO 7/1 und BS 21 <i>taper Whitworth Pipe-Thread, Taper 1:16, accord. to ISO 7/1 and BS 21</i>					
	Gg/1" TPI	Ø-Nominal (Lm)	Messebene Gewindebohrer Gauge plane of tap L <sub>m</sub>	Kernloch / Drill-Ø	
				zylindrisch cylindrical Bz	konisch taper <sup>3)</sup> BK
Rc 1/8	28	9,728	10,10	8,2	8,57
Rc 1/4	19	13,157	15,00	11,0	11,45
Rc 3/8	19	16,662	15,40	14,5	14,95
Rc 1/2	14	20,955	20,40	18,0	18,63
Rc 3/4	14	26,441	21,70	23,4	24,12
Rc 1	11	33,249	26,00	29,5	30,29
Rc 1.1/4	11	41,910	28,30	38,0	38,95
Rc 1.1/2	11	47,803	28,30	43,9	44,85
Rc 2	11	59,614	32,60	55,5	56,66
Rc 2.1/2	11	75,184	37,10	70,9	72,23
Rc 3	11	87,884	40,20	83,4	84,93
Rc 4	11	113,030	46,20	108,2	110,07

3) Für Serienfertigung empfehlen wir die Kernlöcher konisch vorzuarbeiten (BK)  
*For mass production preparation of a taper core hole is recommended.*



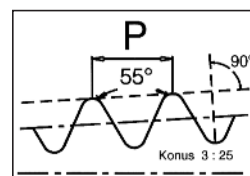
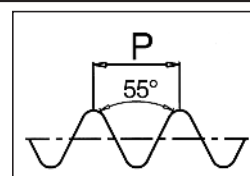
W zylindrisches Whitworth Gewinde DIN 477 / <i>Cylindrical Whitworth Thread according to DIN 477</i>				
	P Gg/1" / TPI	Kern-Ø / Core-Ø Min. <sup>4)</sup>	Mutter / Nut Thread Minor-Ø Max.	Kernloch / Drill-Ø ØB
W 21,8 x 1/14	14	19,496	20,066	19,75
W 24,32 x 1/14	14	22,016	22,586	22,25
W 1 x 1/8	8	21,339	22,152	22,00

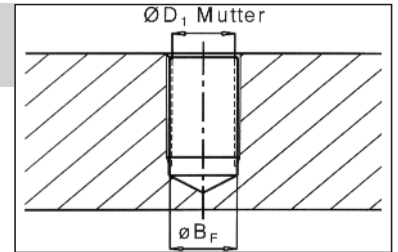
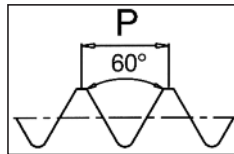
W kegeliges Whitworth Gewinde DIN 477 / <i>Taper Whitworth Thread according to DIN 477</i>				
	P Gg/1" / TPI	Messebene Gewindebohrer Gauge plane of tap L <sub>m</sub>	Kernloch / Drill-Ø zylindrisch cylindrical Max.	konisch taper <sup>5)</sup> ØB
W 19,8 x 1/14 keg.	14	24,2	14,7	16,8
W 28,8 x 1/14 keg.	14	29,2	22,7	25,4
W 31,3 x 1/14 keg.	14	29,2	25,2	27,9

4) Mutterkern-Ø gem. DIN 477 Teil 1 / *Minor-Ø of nut thread accord. to DIN 477 part 1*

5) Für Serienfertigung empfehlen wir die Kernlöcher konisch vorzuarbeiten (BK)  
*For mass production preparation of a taper core hole is recommended.*



# Vorbohr-Ø Gewindeformer Drill-Ø for Cold Forming Taps

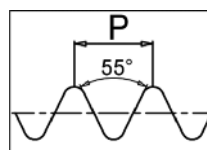


<b>M</b> Metrisches ISO - Regelgewinde, 6HX <i>Metric ISO - Coarse Thread 6HX</i>					<b>MF</b> Metrisches ISO - Feingewinde, 6HX <i>Metric ISO - Fine Thread 6HX</i>				
Ø	P [mm]	Vorbohr-Ø Drill-Ø BF	Muttergewinde Kern-Ø <sup>1)</sup> Nut Thread Minor - Ø <sup>1)</sup> 7H		Ø	P [mm]	Vorbohr-Ø Drill-Ø BF	Muttergewinde Kern-Ø <sup>1)</sup> Nut Thread Minor - Ø <sup>1)</sup> 7H	
			Min.	Max.				Min.	Max.
M 1	0,25	0,90	0,729	0,785	M 6 x	0,75	5,65	5,188	5,424
M 1,2	0,25	1,10	0,929	0,985	M 8 x	0,75	7,65	7,188	7,424
M 1,4	0,3	1,25	1,075	1,142	M 8 x	1	7,55	6,917	7,217
M 1,6	0,35	1,45	1,221	1,321	M 10 x	1	9,55	8,917	9,217
M 1,7	0,35	1,55	1,256	1,346	M 10 x	1,25	9,40	8,647	8,982
M 1,8	0,35	1,65	1,421	1,521	M 12 x	1	11,55	10,917	11,217
M 2	0,4	1,85	1,567	1,679	M 12 x	1,25	11,40	10,647	10,982
M 2,5	0,45	2,30	2,013	2,138	M 12 x	1,5	11,30	10,376	10,751
M 3	0,5	2,80	2,459	2,639	M 14 x	1,5	13,30	12,376	12,751
M 3,5	0,6	3,25	2,850	3,050	M 16 x	1,5	15,30	14,376	14,751
M 4	0,7	3,70	3,242	3,466	M 18 x	1,5	17,30	16,376	16,751
M 5	0,8	4,65	4,134	4,384	M 20 x	1,5	19,30	18,376	18,751
M 6	1	5,55	4,917	5,217					
M 8	1,25	7,40	6,647	6,982					
M 10	1,5	9,30	8,376	8,751					
M 12	1,75	11,20	10,106	10,531					
M 14	2	13,10	11,835	12,310					
M 16	2	15,10	13,835	14,310					
M 18	2,5	16,90	15,294	15,854					
M 20	2,5	18,90	17,294	17,854					
M 22	2,5	20,90	19,294	19,854					
M 24	3	22,70	20,752	21,382					
M 27	3	25,70	23,752	24,382					
M 30	3,5	28,50	26,211	26,921					
M 33	3,5	31,50	29,211	29,921					
M 36	4	34,30	31,670	32,420					
M 39	4	37,30	34,670	35,420					

1) Ab M 3 - empfohlene Toleranzfeldkombination für gefurchte Gewinde 6H 7H (D<sub>2</sub>, D<sub>1</sub>) vgl. DIN 13 Teil 50  
Over M 3 - recommended combination of tolerances for threads being produced by cold forming taps 6H / 7H see DIN 13 Teil 50

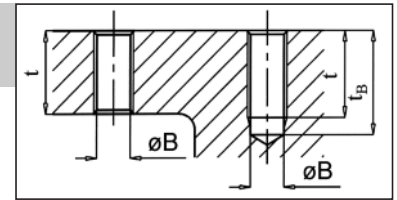
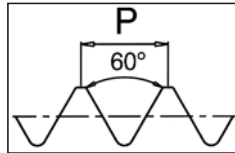
<b>UNC</b> Unified Grobgewinde ANSI B 1.1 <i>Unified Coarse Threads ANSI B 1.1</i>					<b>UNF</b> Unified Feingewinde ANSI B 1.1 <i>Unified Fine Threads ANSI B 1.1</i>				
Ø	P [Gg/1"]	Vorbohr-Ø Drill-Ø BF	Muttergewinde Kern-Ø <sup>1)</sup> Nut Thread Minor - Ø <sup>1)</sup> 2B		Ø	P [Gg/1"]	Vorbohr-Ø Drill-Ø BF	Muttergewinde Kern-Ø <sup>1)</sup> Nut Thread Minor - Ø <sup>1)</sup> 2B	
			Min.	Max.				Min.	Max.
Nr. 4 -	40	2,55	2,156	2,385	Nr. 4 -	48	2,60	2,271	2,459
Nr. 5 -	40	2,90	2,487	2,697	Nr. 5 -	44	2,90	2,550	2,741
Nr. 6 -	32	3,15	2,642	2,896	Nr. 6 -	40	3,20	2,819	3,023
Nr. 8 -	32	3,80	3,302	3,531	Nr. 8 -	36	3,85	3,404	3,607
Nr. 10 -	24	4,35	3,683	3,962	Nr. 10 -	32	4,45	3,962	4,166
Nr. 12 -	24	5,00	4,343	4,597	Nr. 12 -	28	5,10	4,496	4,724
1/4 -	20	5,75	4,976	5,268	1/4 -	28	5,95	5,367	5,580
5/16 -	18	7,30	6,411	6,734	5/16 -	24	7,45	6,792	7,038
3/8 -	16	8,80	7,805	8,164	3/8 -	24	9,05	8,379	8,626
7/16 -	14	10,30	9,149	9,550	7/16 -	20	10,55	9,738	10,030
1/2 -	13	11,80	10,584	11,013	1/2 -	20	12,10	11,326	11,618
9/16 -	12	13,30	11,996	12,456	9/16 -	18	13,65	12,761	13,084
5/8 -	11	14,80	13,376	13,868	5/8 -	18	15,25	14,348	14,671
3/4 -	10	17,90	16,299	16,833	3/4 -	16	18,35	17,330	17,689

<b>G</b> Whitworth Rohrgewinde DIN ISO 228 <i>Whitworth Pipe Threads. DIN ISO 228</i>				
Ø	P [Gg/1"]	Vorbohr-Ø Drill-Ø BF	Muttergewinde Kern-Ø <sup>1)</sup> Nut Thread Minor - Ø <sup>1)</sup>	
			Min.	Max.
G 1/8 -	28	9,30	8,566	8,848
G 1/4 -	19	12,50	11,445	11,890
G 3/8 -	19	16,00	14,950	15,395
G 1/2 -	14	20,00	18,631	19,172
G 3/4 -	14	25,50	24,117	24,658





# Gewinde - Kernloch-Ø und Kern-Ø Muttergewinde Drill-Ø for Threads and Minor-Ø of Nut Threads



EG-UNC Unified Grobgewinde für Draht-Gewindeeinsätze Unified Coarse Threads for wire inserts						EG-UNF Unified Feingewinde für Draht-Gewindeeinsätze Unified Fine Threads for wire inserts							
Ø	-	Gg/1" TPI	Außen Ø	Kernloch	Muttergewinde Kern-Ø		Ø	-	Gg/1" TPI	Außen Ø	Kernloch	Muttergewinde Kern-Ø	
			Outside Ø Min. 2B/3B	Drill-Ø ØB	Nut Thread Minor-Ø Min. 2B/3B	Max. 3B				Outside Ø Min. 2B/3B	Drill-Ø ØB	Nut Thread Minor-Ø Min. 2B/3B	Max. 3B
EG Nr. 2	-	56	2,774	2,35	2,283	2,441	EG Nr. 4	-	48	3,533	3,00	2,962	3,122
EG Nr. 3	-	48	3,203	2,70	2,631	2,804	EG Nr. 6	-	40	4,331	3,70	3,645	3,818
EG Nr. 4	-	40	3,670	3,10	2,985	3,180	EG Nr. 8	-	36	5,083	4,40	4,321	4,498
EG Nr. 5	-	40	4,001	3,40	3,315	3,487	EG Nr. 10	-	32	5,857	5,10	4,999	5,184
EG Nr. 6	-	32	4,536	3,80	3,678	3,879	EG 1/4	-	28	7,529	6,60	6,546	6,721
EG Nr. 8	-	32	5,197	4,40	4,338	4,524	EG 5/16	-	24	9,312	8,25	8,166	8,352
EG Nr. 10	-	24	6,200	5,20	5,055	5,283	EG 3/8	-	24	10,899	9,80	9,754	9,931
EG Nr. 12	-	24	6,861	5,80	5,715	5,944	EG 7/16	-	20	12,764	11,50	11,387	11,585
EG 1/4	-	20	8,001	6,70	6,624	6,868	EG 1/2	-	20	14,351	13,10	12,974	13,172
EG 5/16	-	18	9,771	8,40	8,242	8,489	EG 9/16	-	18	16,121	14,70	14,592	14,798
EG 3/8	-	16	11,587	10,00	9,868	10,127	EG 5/8	-	18	17,709	16,30	16,180	16,386
EG 7/16	-	14	13,470	11,70	11,506	11,783	EG 3/4	-	16	21,112	19,50	19,393	19,609
EG 1/2	-	13	15,237	13,30	13,122	13,393	EG 7/8	-	14	24,582	22,75	22,619	22,845
EG 9/16	-	12	17,038	14,90	14,747	15,032	EG 1	-	12	28,151	26,00	25,860	26,114
EG 5/8	-	11	18,875	16,50	16,375	16,673							
EG 3/4	-	10	22,349	19,75	19,599	19,909							
EG 7/8	-	9	25,890	23,00	22,835	23,162							
EG 1	-	8	29,525	26,20	26,088	26,469							

1) Kernloch-Ø und Muttergewinde Kern-Ø gem. NASM 33537  
Drill-Ø and minor-Ø of nut thread according to NASM 33537

Weitere Sonderprospekte sind verfügbar, bitte anfordern.

*Further special literature is available on request.*



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