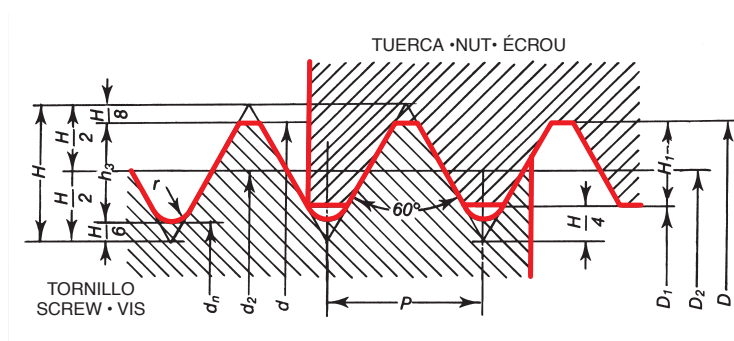


**THEORETICAL PROFILE**  
 PROFIL THÉORIQUE  
 PERFIL TEORICO



**ISO-METRIC THREAD**  
 FILETAGE MÉTRIQUE ISO  
 ROSCA ISO-METRICA

**DIN 13**



$$D_1 = d - 2H_1$$

$$d_2 = D_2 = d - 0,64953 P$$

$$d_3 = d - 1,22687 P$$

$$H = 0,86603 P$$

$$H_1 = 0,54127 P$$

$$h_3 = 0,61343 P$$

$$r = \frac{H}{6} = 0,14434 P$$

Diámetro nominal de la rosca Nominal thread diameter Diamètre nominal du filet		d = D	Paso Pitch Pass	Ø Medio Pitch Ø Ø Moyen	Diámetro del núcleo Core diameter Diamètre du noyau	
Serie 1	Serie 2	Serie 3	P mm.	d = D <sub>2</sub> mm.	d <sub>n</sub> mm.	D <sub>1</sub> mm.
M 1*	M 1,1*		0,25	0,838	0,693	0,729
M 1,2*			0,25	0,938	0,793	0,829
M 1,6	M 1,4		0,25	1,038	0,893	0,929
			0,3	1,2105	1,032	1,075
M 2	M 1,8		0,35	1,373	1,170	1,221
			0,35	1,573	1,370	1,421
M 2,5	M 2,2		0,4	1,740	1,509	1,567
			0,45	1,908	1,648	1,713
M 3	M 3,5		0,45	2,208	1,948	2,013
			0,5	2,675	2,387	2,459
M 4	M 4,5		0,6	3,110	2,764	2,850
			0,7	3,545	3,141	3,242
M 5	M 7		0,75	4,013	3,580	3,688
			0,8	4,480	4,019	4,134
M 6	M 9		1	5,350	4,773	4,917
			1	6,350	5,773	5,917
M 8	M 11		1,25	7,188	6,466	6,647
			1,25	8,188	7,466	7,647
M 10	M 11		1,5	9,026	8,160	8,376
			1,5	10,026	9,160	9,376
M 12	M 14		1,75	10,863	9,853	10,106
			2	12,701	11,546	11,835
M 16	M 18		2	14,701	13,546	13,835
			2,5	16,376	14,933	15,294
M 20	M 22		2,5	18,376	16,933	17,294
			2,5	20,376	18,933	19,294
M 24	M 27		3	22,051	20,319	20,752
			3	25,051	23,319	23,752
M 30	M 33		3,5	27,727	25,706	26,211
			3,5	30,727	28,706	29,211
M 36	M 39		4	33,402	31,093	31,670
			4	36,402	34,093	34,670
M 42	M 45		4,5	39,077	36,479	37,129
			4,5	42,077	39,479	40,129
M 48	M 52		5	44,752	41,866	42,587
			5	48,752	45,866	46,587
M 56	M 60		5,5	52,428	49,252	50,046
			5,5	56,428	53,252	54,046
M 64	M 68		6	60,103	56,639	57,505
			6	64,103	60,639	61,505

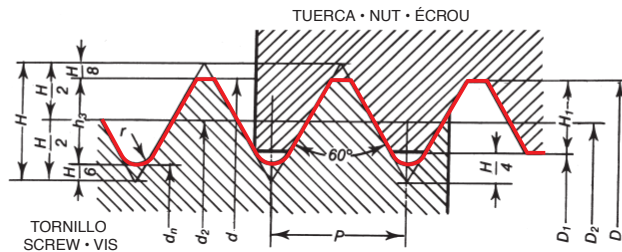
NUT  
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ISO-METRIC THREAD  
FILETAGE MÉTRIQUE ISO  
ROSCA ISO-METRICA

DIN 13

Rosca Thread Filet	Paso Pitch Pass	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø Ø Moyen		Ø Núcleo Core Ø Ø Noyau		Rosca Thread Filet	Paso Pitch Pass	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø Ø Moyen		Ø Núcleo Core Ø Ø Noyau		
				D <sub>2</sub> mín.	D <sub>2</sub> máx.	D <sub>1</sub> mín.	D <sub>1</sub> máx.					D <sub>2</sub> mín.	D <sub>2</sub> máx.	D <sub>1</sub> mín.	D <sub>1</sub> máx.	
M 1	0,25	4H 5H	1 1	0,838	0,883	0,729	0,774	M 14	2	5H 6H 7H	14 14 14	12,701	12,871	11,835	12,135	
				0,838	0,894	0,729	0,785					12,701	12,913	11,835	12,210	
M 1,1	0,25	4H 5H	1,1 1,1	0,938	0,983	0,829	0,874	M 16	2	5H 6H 7H	16 16 16	14,701	14,871	13,835	14,135	
M 1,2	0,25	4H 5H	1,2 1,2	1,038	1,083	0,929	0,974					14,701	14,913	13,835	14,210	
M 1,4	0,3	4H 5H	1,4 1,4	1,205	1,253	1,075	1,128	M 18	2,5	5H 6H 7H	18 18 18	16,376	16,556	15,294	15,649	
				1,205	1,265	1,075	1,142					16,376	16,600	15,294	15,744	
M 1,5	0,35	4H 5H 6H	1,6 1,6 1,6	1,373	1,426	1,221	1,284	M 20	2,5	5H 6H 7H	20 20 20	18,376	18,556	17,294	17,649	
				1,373	1,440	1,221	1,301					18,376	18,600	17,294	17,444	
M 1,8	0,35	4H 5H 6H	1,8 1,8 1,8	1,573	1,626	1,421	1,484	M 22	2,5	5H 6H 7H	22 22 22	20,376	20,556	19,294	19,649	
				1,573	1,640	1,421	1,501					20,376	20,600	19,294	19,744	
M 2	0,4	5H 6H	2 2	1,740	1,811	1,567	1,657	M 24	3	5H 6H 7H	24 24 24	22,051	22,263	20,752	21,152	
				1,740	1,830	1,567	1,679					22,051	22,316	20,752	21,252	
M 2,2	0,45	5H 6H	2,2 2,2	1,908	1,983	1,713	1,813	M 27	3	5H 6H 7H	27 27 27	25,051	25,263	23,752	24,152	
				1,908	2,003	1,713	1,838					25,051	25,316	23,752	24,252	
M 2,5	0,45	5H 6H	2,5 2,5	2,208	2,283	2,013	2,113	M 30	3,5	5H 6H 7H	30 30 30	27,727	27,951	26,211	26,661	
				2,208	2,303	2,013	2,138					27,727	28,007	26,211	26,771	
M 3	0,5	5H 6H 7H	3 3 3	2,675	2,755	2,459	2,571	M 33	3,5	5H 6H 7H	33 33 33	30,727	30,951	29,211	29,661	
				2,675	2,775	2,459	2,599					30,727	31,007	29,211	29,771	
M 3,5	0,6	5H 6H 7H	3,5 3,5 3,5	3,110	3,200	2,850	2,975	M 36	4	5H 6H 7H	36 36 36	33,402	33,638	31,670	32,145	
				3,110	3,222	2,850	3,010					33,402	33,702	31,670	32,270	
M 4	0,7	5H 6H 7H	4 4 4	3,545	3,640	3,242	3,382	M 39	4	5H 6H 7H	39 39 39	36,402	36,638	34,670	35,145	
				3,545	3,663	3,242	3,422					36,402	36,702	34,670	35,270	
M 4,5	0,75	5H 6H 7H	4,5 4,5 4,5	4,013	4,108	3,688	3,838	M 42	4,5	5H 6H 7H	42 42 42	39,077	39,327	37,129	37,659	
				4,013	4,131	3,688	3,878					39,077	39,392	37,129	37,799	
M 5	0,8	5H 6H 7H	5 5 5	4,480	4,580	4,134	4,294	M 45	4,5	5H 6H 7H	45 45 45	42,077	42,327	40,129	40,659	
				4,480	4,605	4,134	4,334					42,077	42,392	40,129	40,799	
M 6	1	5H 6H 7H	6 6 6	5,350	5,468	4,917	5,107	M 48	5	5H 6H 7H	48 48 48	44,752	45,017	42,587	43,147	
				5,350	5,500	4,917	5,153					44,752	45,087	42,587	43,297	
M 7	1	5H 6H 7H	7 7 7	6,350	6,468	5,917	6,107	M 52	5	5H 6H 7H	52 52 52	48,752	49,017	46,587	47,147	
				6,350	6,500	5,917	6,153					48,752	49,087	46,587	47,297	
M 8	1,25	5H 6H 7H	8 8 8	7,188	7,313	6,647	6,859	M 56	5,5	5H 6H 7H	56 56 56	52,428	52,708	50,046	50,646	
				7,188	7,348	6,647	6,912					52,428	52,783	50,046	50,796	
M 9	1,25	5H 6H 7H	9 9 9	8,188	8,313	7,647	7,859	M 60	5,5	6H 6H 7H	60 60 60	56,428	56,708	54,046	54,646	
				8,188	8,348	7,647	7,912					56,428	56,783	54,046	54,796	
M 10	1,5	5H 6H 7H	10 10 10	9,026	9,166	8,376	8,612	M 64	6	5H 6H 7H	64 64 64	60,103	60,403	57,505	58,135	
				9,026	9,206	8,376	8,676					60,103	60,478	57,505	58,305	
M 11	1,50	5H 6H 7H	11 11 11	10,026	10,166	9,376	9,612	M 68	6	5H 6H 7H	68 68 68	64,103	64,403	61,505	62,135	
				10,026	10,206	9,376	9,676					64,103	64,478	61,505	62,305	
M 12	1,75	5H 6H 7H	12 12 12	10,863	11,023	10,106	10,371					68	68	64,578	61,505	62,505
				10,863	11,063	10,106	10,441	68	68	64,578	61,505	62,505				



$$D_1 = d - 2H_1$$

$$d_2 = D_2 = d - 0,64953 P$$

$$d_3 = d - 1,22687 P$$

$$H = 0,86603 P$$

$$H_1 = 0,54127 P$$

$$h_3 = 0,61343 P$$

$$r = \frac{H}{6} = 0,14434 P$$

Diámetro nominal de la rosca Nominal thread diameter Diamètre nominal du filet		d = D	Paso Pitch Pass	Ø Medio Pitch Ø Ø Moyen	Diámetro del núcleo Core diameter Diamètre du noyau	
Serie 1	Serie 2	Serie 3	P mm.	d = D <sub>2</sub> mm.	d <sub>n</sub> mm.	D <sub>1</sub> mm.
M 1*			0,2	0,870	0,755	0,783
	M 1,1*		0,2	0,970	0,855	0,883
M 1,2*			0,2	1,070	0,955	0,983
	M 1,4*		0,2	1,270	1,155	1,183
M 1,6*			0,2	1,470	1,355	1,383
	M 1,8*		0,2	1,670	1,555	1,583
M 2*			0,25	1,838	1,693	1,729
	M 2,2*		0,25	2,038	1,893	1,929
M 2,5			0,35	2,273	2,071	2,121
M 3			0,35	2,773	2,571	2,621
	M 3,5		0,35	3,273	3,071	3,121
M 4			0,50	3,675	3,387	3,459
	M 4,5		0,50	4,175	3,887	3,959
M 5		M 5,5	0,50	4,675	4,387	4,459
			0,50	5,175	4,887	4,959
M 6			0,50	5,675	5,387	5,459
M 6		M 7	0,75	5,513	5,080	5,188
			0,75	6,513	6,080	6,188
M 8			0,50	7,675	7,387	7,459
M 8			0,75	7,513	7,080	7,188
M 8		M 9	1	7,350	6,773	6,917
			1	8,350	7,773	7,917
M 10			0,75	9,513	9,080	9,188
M 10			1	9,350	8,773	8,917
M 10		M 11	1,25	9,188	8,466	8,647
			1	10,350	9,773	9,917
M 12			1	10,350	10,773	10,917
M 12			1,25	11,188	10,466	10,647
M 12	M 14		1,5	11,026	10,160	10,376
	M 14		1	13,350	12,773	12,917
	M 14		1,25	13,188	12,466	12,647
	M 14		1,5	13,026	12,160	12,376
		M 15	1	14,350	13,773	13,917
M 16		M 15	1,5	14,026	13,160	13,376
M 16			1	15,350	14,773	14,917
			1,5	15,026	14,160	14,376
		M 17	1	16,350	15,773	15,917
		M 17	1,5	16,026	15,160	15,376
	M 18		1	17,350	16,773	16,917
	M 18		1,5	17,026	16,160	16,376
M 20	M 18		2	16,701	15,546	15,835
M 20			1	19,350	18,773	18,917
M 20			1,5	19,026	18,160	18,376
			2	18,701	17,546	17,835
	M 22		1	21,350	20,773	20,917
	M 22		1,5	21,026	20,160	20,376
	M 22		2	20,701	19,546	19,835
M 24			1	23,350	22,773	22,917

\* Macho en tolerancia 4H • Dimensions in tolerance 4H • Mesures en tolérance 4H



DIN 13

Diámetro nominal de la rosca Nominal thread diameter Diamètre nominal du filet d = D			Paso Pitch Pass	Ø Medio Pitch Ø Ø Moyen	Diámetro del núcleo Core diameter Diamètre du noyau		Diámetro nominal de la rosca Nominal thread diameter Diamètre nominal du filet d = D			Paso Pitch Pass	Ø Medio Pitch Ø Ø Moyen	Diámetro del núcleo Core diameter Diamètre du noyau	
Serie 1	Serie 2	Serie 3			d <sub>2</sub> = D <sub>2</sub>	D <sub>n</sub>	D <sub>1</sub>	Serie 1	Serie 2			Serie 3	d <sub>2</sub> = D <sub>2</sub>
M 24			1,5	23,026	22,160	22,376			M 58	3	56,051	54,319	54,752
M 24			2	22,701	21,546	21,835			M 58	4	55,402	53,093	53,670
		M 25	1	24,350	23,773	23,917			M 60	1,5	59,026	58,160	58,376
		M 25	1,5	24,026	23,160	23,376			M 60	2	58,701	57,546	57,835
	M 27	M 25	2	23,701	22,546	22,835		M 60	3	58,051	56,319	56,752	
	M 27		1	26,350	25,773	25,917		M 60	4	57,402	55,093	55,670	
	M 27		1,5	26,026	25,160	25,376		M 62	1,5	61,026	60,160	60,376	
	M 27		2	25,701	24,546	24,835		M 62	2	60,701	59,546	59,835	
		M 28	1	27,350	26,773	26,917			M 62	3	60,051	58,319	58,752
		M 28	1,5	27,026	26,160	26,376			M 62	4	59,402	57,093	57,670
		M 28	2	26,701	25,546	25,835	M 64		M 62	1,5	63,026	62,160	62,376
M 30			1	29,350	28,773	28,917	M 64		M 62	2	62,701	61,546	61,835
			1,5	29,026	28,160	28,376	M 64			3	62,051	60,319	60,752
M 30			2	28,701	27,546	27,835	M 64			4	61,402	59,093	59,670
M 30			3	28,051	26,319	26,752			M 65	1,5	64,026	63,160	63,376
		M 32	1,5	31,026	30,160	30,376			M 65	2	63,701	62,546	62,835
			2	30,701	29,546	29,835			M 65	3	63,051	61,319	61,752
	M 33	M 32	1,5	32,026	31,160	31,376			M 65	4	62,402	60,093	60,670
	M 33		2	31,701	30,546	30,835		M 68	1,5	67,026	66,160	66,376	
	M 33		3	31,051	29,319	29,752		M 68	2	66,701	65,546	65,835	
		M 35	1,5	34,026	33,160	33,376		M 68	3	66,051	64,319	64,752	
M 36			1,5	35,026	34,160	34,376			M 70	4	65,402	63,093	63,670
M 36			2	34,701	33,546	33,835			M 70	1,5	69,026	68,160	68,376
M 36			3	34,051	32,319	32,752			M 70	2	68,701	67,546	67,835
	M 39	M 38	1,5	37,026	36,160	36,376			M 70	3	68,051	66,319	66,752
	M 39		1,5	38,026	37,160	37,376			M 70	4	67,402	65,093	65,670
	M 39		2	37,701	36,546	36,835		M 72	6	66,103	62,639	63,505	
	M 39		3	37,051	35,319	35,752		M 72	1,5	71,026	70,160	70,376	
		M 40	1,5	39,026	38,160	38,376				2	70,701	69,546	69,835
		M 40	2	38,701	37,546	37,835				3	70,051	68,319	68,752
		M 40	3	38,051	36,319	36,752				4	69,402	67,093	67,670
M 42			1,5	41,026	40,160	40,376				6	68,103	64,639	65,505
			2	40,701	39,546	39,835			M 75	1,5	74,026	73,160	73,376
M 42			3	40,051	38,319	38,752			M 75	2	73,701	72,546	72,835
M 42			4	39,402	37,039	37,670			M 75	3	73,051	71,319	71,752
	M 45		1,5	44,026	43,160	43,376			M 75	4	72,402	70,093	70,670
	M 45		2	43,701	42,546	42,835		M 76	1,5	75,026	74,160	74,376	
	M 45		3	43,051	41,319	41,752		M 76	2	74,701	73,546	73,835	
	M 45		4	42,402	40,093	40,670		M 76	3	74,051	72,319	72,752	
M 48			1,5	47,026	46,160	46,376		M 76	4	73,402	71,093	71,670	
			2	46,701	45,546	45,835	M 80			6	72,103	68,639	69,505
M 48			3	46,051	44,319	44,752	M 80			1,5	79,026	78,160	78,376
M 48			4	45,402	43,093	43,670	M 80			2	78,701	77,546	77,835
		M 50	1,5	49,026	48,160	48,376	M 80			3	78,051	76,319	76,752
			2	48,701	47,546	47,835	M 80			4	77,402	75,093	75,670
		M 50	3	48,051	46,319	46,752	M 80			6	76,103	72,639	73,505
	M 52	M 50	1,5	51,026	50,160	50,376		M 85	2	83,701	82,546	82,835	
	M 52		2	50,701	49,546	49,835		M 85	3	83,051	81,319	81,752	
			3	50,051	48,319	48,752			4	82,402	80,093	80,670	
	M 52		4	49,402	47,093	47,670	M 90		M 85	6	81,103	77,639	78,505
		M 55	1,5	54,026	53,160	53,376	M 90			2	88,701	87,546	87,835
		M 55	2	53,701	52,546	52,835	M 90			3	88,051	86,319	86,752
			3	53,051	51,319	51,752		M 95	4	87,402	85,093	85,670	
		M 55	4	52,402	50,093	50,670		M 95	6	86,103	82,639	83,505	
M 56			1,5	55,026	54,160	54,376			2	93,701	92,546	92,835	
M 56			2	54,701	53,546	53,835			3	93,051	91,319	91,752	
			3	54,051	52,319	52,752		M 100	4	92,402	90,093	90,670	
		M 58	4	53,402	51,093	51,670		M 100	6	91,103	87,639	88,505	
			1,5	57,026	56,160	56,376			2	98,701	97,546	97,835	
			2	56,701	55,546	55,835			3	98,051	96,319	96,752	
			4	56,051	54,835	55,268			4	97,402	95,093	95,670	
			6	55,752	54,546	54,998			6	96,103	92,639	93,505	

NUT  
ÉCROU  
TUERCA



ISO-METRIC FINE THREAD  
FILETAGE MÉTRIQUE ISO FINE  
ROSCA ISO-METRICA FINA

DIN 13

Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau		Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau	
			D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.				D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.
M 1 x 0,2	4H	1,000	0,870	0,910	0,783	0,821	M 12 x 1,25	5H	12,000	11,188	11,328	10,647	10,859
M 1,1 x 0,2	4H	1,100	0,970	1,010	0,883	0,921		6H	12,000	11,188	11,368	10,647	10,912
M 1,2 x 0,2	4H	1,200	1,070	1,110	0,983	1,021		7H	12,000	11,188	11,412	10,647	10,982
M 1,4 x 0,2	4H	1,400	1,270	1,310	1,183	1,221	M 12 x 1,5	5H	12,000	11,026	11,176	10,376	10,612
M 1,6 x 0,2	4H	1,600	1,470	1,512	1,383	1,421		6H	12,000	11,026	11,216	10,376	10,676
M 1,8 x 0,2	4H	1,800	1,670	1,712	1,583	1,621		7H	12,000	11,026	11,262	10,376	10,751
M 2 x 0,25	4H	2,000	1,838	1,886	1,729	1,774	M 14 x 1	5H	14,000	13,350	13,475	12,917	13,107
M 2,2 x 0,25	4H	2,200	2,038	2,086	1,929	1,974		6H	14,000	13,350	13,510	12,917	13,153
M 2,5 x 0,35	4H	2,500	2,273	2,326	2,121	2,184		7H	14,000	13,350	13,550	12,917	13,217
M 3 x 0,35	4H	3,000	2,773	2,829	2,621	2,684	M 14 x 1,25	5H	14,000	13,188	13,300	12,647	12,859
M 3,5 x 0,35	4H	3,500	3,273	3,329	3,121	3,184		6H	14,000	13,188	13,368	12,647	12,912
M 4 x 0,5	5H	4,000	3,675	3,755	3,459	3,571		7H	14,000	13,188	13,412	12,647	12,982
M 4,5 x 0,5	5H	4,500	4,175	4,255	3,959	4,071	M 14 x 1,5	5H	14,000	13,026	13,176	12,376	12,612
	6H	4,500	4,175	4,275	3,959	4,099		6H	14,000	13,026	13,216	12,376	12,676
	7H	4,500	4,175	4,300	3,959	4,139		7H	14,000	13,026	13,262	12,376	12,751
M 5 x 0,5	5H	5,000	4,675	4,755	4,459	4,571	M 15 x 1	5H	15,000	14,350	14,475	13,917	14,107
	6H	5,000	4,675	4,775	4,459	4,599		6H	15,000	14,350	14,510	13,917	14,153
	7H	5,000	4,675	4,800	4,459	4,639		7H	15,000	14,350	14,550	13,917	14,217
M 5,5 x 0,5	5H	5,500	5,175	5,255	4,959	5,071	M 15 x 1,5	5H	15,000	14,026	14,176	13,376	13,612
	6H	5,500	5,175	5,275	4,959	5,099		6H	15,000	14,026	14,216	13,376	13,676
	7H	5,500	5,175	5,300	4,959	5,139		7H	15,000	14,026	14,262	13,376	13,751
M 6 x 0,5	5H	6,000	5,675	5,755	5,459	5,571	M 16 x 1	5H	16,000	15,350	15,475	14,917	15,107
	6H	6,000	5,675	5,775	5,459	5,599		6H	16,000	15,350	15,510	14,917	15,153
	7H	6,000	5,675	5,900	5,459	5,639		7H	16,000	15,350	15,550	14,917	15,217
M 6 x 0,75	5H	6,000	5,513	5,619	5,188	5,338	M 16 x 1,5	5H	16,000	15,026	15,176	14,376	14,612
	6H	6,000	5,513	5,645	5,188	5,378		6H	16,000	15,026	15,216	14,376	14,676
	7H	6,000	5,513	5,683	5,188	5,424		7H	16,000	15,026	15,262	14,376	14,751
M 7 x 0,75	5H	7,000	6,513	6,619	6,188	6,338	M 17 x 1	5H	17,000	16,350	16,475	15,917	16,107
	6H	7,000	6,513	6,645	6,188	6,378		6H	17,000	16,350	16,510	15,917	16,153
	7H	7,000	6,513	6,683	6,188	6,424		7H	17,000	16,350	16,550	15,917	16,217
M 8 x 0,5	5H	8,000	7,675	7,765	7,459	7,571	M 17 x 1,5	5H	17,000	16,026	16,176	15,376	15,612
	6H	8,000	7,675	7,785	7,459	7,599		6H	17,000	16,026	16,216	15,376	15,676
	7H	8,000	7,675	7,800	7,459	7,639		7H	17,000	16,026	16,262	15,376	15,751
M 8 x 0,75	5H	8,000	7,513	7,619	7,188	7,338	M 18 x 1	5H	18,000	17,350	17,475	16,917	17,107
	6H	8,000	7,513	7,645	7,188	7,378		6H	18,000	17,350	17,510	16,917	17,153
	7H	8,000	7,513	7,683	7,188	7,424		7H	18,000	17,350	17,550	16,917	17,217
M 8 x 1	5H	8,000	7,350	7,468	6,917	7,107	M 18 x 1,5	5H	18,000	17,026	17,176	16,376	16,612
	6H	8,000	7,350	7,500	6,917	7,153		6H	18,000	17,026	17,216	16,376	16,676
	7H	8,000	7,350	7,540	6,917	7,217		7H	18,000	17,026	17,262	16,376	16,751
M 9 x 1	5H	9,000	8,350	8,468	7,917	8,107	M 18 x 2	5H	18,000	16,701	16,871	15,835	16,135
	6H	9,000	8,350	8,500	7,917	8,153		6H	18,000	16,701	16,913	15,835	16,210
	7H	9,000	8,350	8,540	7,917	8,217		7H	18,000	16,701	16,966	15,835	16,310
M 10 x 0,75	5H	10,000	9,513	9,619	9,188	9,338	M 20 x 1	5H	20,000	19,350	19,475	18,917	19,107
	6H	10,000	9,513	9,645	9,188	9,378		6H	20,000	19,350	19,510	18,917	19,153
	7H	10,000	9,513	9,683	9,188	9,424		7H	20,000	19,350	19,550	18,917	19,217
M 10 x 1	5H	10,000	9,350	9,468	8,917	9,107	M 20 x 1,5	5H	20,000	19,026	19,176	18,376	18,612
	6H	10,000	9,350	9,500	8,917	9,153		6H	20,000	19,026	19,216	18,376	18,676
	7H	10,000	9,350	9,540	8,917	9,217		7H	20,000	19,026	19,262	18,376	18,751
M 10 x 1,25	5H	10,000	9,188	9,313	8,647	8,859	M 20 x 2	5H	20,000	18,701	18,871	17,835	18,135
	6H	10,000	9,188	9,348	8,647	8,912		6H	20,000	18,701	18,913	17,835	18,210
	7H	10,000	9,188	9,388	8,647	8,982		7H	20,000	18,701	18,966	17,835	18,310
M 11 x 1	5H	11,000	10,350	10,468	9,917	10,107	M 22 x 1	5H	22,000	21,350	21,475	20,917	21,107
	6H	11,000	10,350	10,500	9,917	10,153		6H	22,000	21,350	21,510	20,917	21,153
	7H	11,000	10,350	10,540	9,917	10,217		7H	22,000	21,350	21,550	20,917	21,217
M 12 x 1	5H	12,000	11,350	11,475	10,917	11,107	M 22 x 1,5	5H	22,000	21,026	21,176	20,376	20,612
	6H	12,000	11,350	11,510	10,917	11,153		6H	22,000	21,026	21,216	20,376	20,676
	7H	12,000	11,350	11,650	10,917	11,217		7H	22,000	21,026	21,262	20,376	20,751
M 12 x 1	5H	12,000	11,350	11,475	10,917	11,107	M 22 x 2	5H	22,000	20,701	20,871	19,835	20,135
	6H	12,000	11,350	11,510	10,917	11,153		6H	22,000	20,701	20,913	19,835	20,210
	7H	12,000	11,350	11,650	10,917	11,217		7H	22,000	20,701	20,966	19,835	20,310
M 12 x 1	5H	12,000	11,350	11,475	10,917	11,107	M 24 x 1	5H	24,000	23,350	23,482	22,917	23,107
	6H	12,000	11,350	11,510	10,917	11,153		6H	24,000	23,350	23,520	22,917	23,153
	7H	12,000	11,350	11,650	10,917	11,217		7H	24,000	23,350	23,562	22,917	23,217

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ISO-METRIC FINE THREAD  
FILETAGE MÉTRIQUE ISO FINE  
ROSCA ISO-METRICA FINA

DIN 13

Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau		Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau	
			D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.				D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.
M 24 x 1,5	5H	24,000	23,026	23,186	22,376	22,612	M 36 x 1,5	5H	36,000	35,026	35,186	34,376	34,612
	6H	24,000	23,026	23,226	22,376	22,676		6H	36,000	35,026	35,226	34,376	34,676
	7H	24,000	23,026	23,276	22,376	22,751		7H	36,000	35,026	35,276	34,376	34,751
M 24 x 2	5H	24,000	22,701	22,881	21,835	22,135	M 36 x 2	5H	36,000	34,701	34,881	33,835	34,135
	6H	24,000	22,701	22,925	21,835	22,210		6H	36,000	34,701	34,925	33,835	34,210
	7H	24,000	22,701	22,981	21,835	22,310		7H	36,000	34,701	34,981	33,835	34,310
M 25 x 1	5H	25,000	24,350	24,482	23,917	24,107	M 36 x 3	5H	36,000	34,051	34,263	32,752	33,152
	6H	25,000	24,350	24,520	23,917	24,153		6H	36,000	34,051	34,316	32,752	33,252
	7H	25,000	24,350	24,562	23,917	24,217		7H	36,000	34,051	34,386	32,752	33,382
M 25 x 1,5	5H	25,000	24,026	24,186	23,376	23,612	M 38 x 1,5	5H	38,000	37,026	37,186	36,376	36,612
	6H	25,000	24,026	24,226	23,376	23,676		6H	38,000	37,026	37,226	36,376	36,676
	7H	25,000	24,026	24,276	23,376	23,751		7H	38,000	37,026	37,276	36,376	36,751
M 25 x 2	5H	25,000	23,701	23,881	22,835	23,135	M 39 x 1,5	5H	39,000	38,026	38,186	37,376	37,612
	6H	25,000	23,701	23,925	22,835	23,210		6H	39,000	38,026	38,226	37,376	37,676
	7H	25,000	23,701	23,981	22,835	23,310		7H	39,000	38,026	38,276	37,376	37,751
M 27 x 1	5H	27,000	26,350	26,482	25,917	26,107	M 39 x 2	5H	39,000	37,701	37,881	36,835	37,135
	6H	27,000	26,350	26,520	25,917	26,153		6H	39,000	37,701	37,925	36,835	37,210
	7H	27,000	26,350	26,562	25,917	26,217		7H	39,000	37,701	37,981	36,835	37,310
M 27 x 1,5	5H	27,000	26,026	26,186	25,376	25,612	M 39 x 3	5H	39,000	37,051	37,263	35,752	36,152
	6H	27,000	26,026	26,226	25,376	25,676		6H	39,000	37,051	37,316	35,752	36,252
	7H	27,000	26,026	26,276	25,376	25,751		7H	39,000	37,051	37,386	35,752	36,382
M 27 x 2	5H	27,000	25,701	25,881	24,835	25,135	M 40 x 1,5	5H	40,000	39,026	39,186	38,376	38,612
	6H	27,000	25,701	25,925	24,835	25,210		6H	40,000	39,026	39,226	38,376	38,676
	7H	27,000	25,701	25,981	24,835	25,310		7H	40,000	39,026	39,276	38,376	38,751
M 28 x 1	5H	28,000	27,350	27,482	26,917	27,107	M 40 x 2	5H	40,000	38,701	38,881	37,835	38,135
	6H	28,000	27,350	27,520	26,917	27,153		6H	40,000	38,701	38,925	37,835	38,210
	7H	28,000	27,350	27,562	26,917	27,217		7H	40,000	38,701	38,981	37,835	38,310
M 28 x 1,5	5H	28,000	27,026	27,186	26,376	26,612	M 40 x 3	5H	40,000	38,051	38,263	36,752	37,152
	6H	28,000	27,026	27,226	26,376	26,676		6H	40,000	38,051	38,316	36,752	37,252
	7H	28,000	27,026	27,276	26,376	26,751		7H	40,000	38,051	38,386	36,752	37,382
M 28 x 2	5H	28,000	26,701	26,881	25,835	26,135	M 42 x 1,5	5H	42,000	41,026	41,186	40,376	40,612
	6H	28,000	26,701	26,925	25,835	26,210		6H	42,000	41,026	41,226	40,376	40,676
	7H	28,000	26,701	26,981	25,835	26,310		7H	42,000	41,026	41,276	40,376	40,751
M 30 x 1	5H	30,000	29,350	29,482	28,917	29,107	M 42 x 2	5H	42,000	40,701	40,881	39,835	40,135
	6H	30,000	29,350	29,520	28,917	29,153		6H	42,000	40,701	40,925	39,835	40,210
	7H	30,000	29,350	29,562	28,917	29,217		7H	42,000	40,701	40,981	39,835	40,310
M 30 x 1,5	5H	30,000	29,026	29,186	28,376	28,612	M 42 x 3	5H	42,000	40,051	40,263	38,752	39,152
	6H	30,000	29,026	29,226	28,376	28,676		6H	42,000	40,051	40,316	38,752	39,252
	7H	30,000	29,026	29,276	28,376	28,751		7H	42,000	40,051	40,386	38,752	39,382
M 30 x 2	5H	30,000	28,701	28,881	27,835	28,135	M 42 x 4	5H	42,000	39,402	39,638	37,670	38,145
	6H	30,000	28,701	28,925	27,835	28,210		6H	42,000	39,402	39,702	37,670	38,270
	7H	30,000	28,701	28,981	27,835	28,310		7H	42,000	39,402	39,777	37,670	38,420
M 30 x 3	5H	30,000	28,051	28,263	26,752	27,152	M 45 x1,5	5H	45,000	44,026	44,186	43,376	43,612
	6H	30,000	28,051	28,316	26,752	27,252		6H	45,000	44,026	44,226	43,376	43,676
	7H	30,000	28,051	28,386	26,752	27,382		7H	45,000	44,026	44,276	43,376	43,751
M 32 x 1,5	5H	32,000	31,026	31,186	30,376	30,612	M 45 x 2	5H	45,000	43,701	43,881	42,835	43,135
	6H	32,000	31,026	31,226	30,376	30,676		6H	45,000	43,701	43,925	42,835	43,210
	7H	32,000	31,026	31,276	30,376	30,751		7H	45,000	43,701	43,981	42,835	43,310
M 32 x 2	5H	32,000	30,701	30,881	29,835	30,135	M 45 x 3	5H	45,000	43,051	43,263	41,752	42,152
	6H	32,000	30,701	30,925	29,835	30,210		6H	45,000	43,051	43,316	41,752	42,252
	7H	32,000	30,701	30,981	29,835	30,310		7H	45,000	43,051	43,386	41,752	42,382
M 33 x 1,5	5H	33,000	32,026	32,186	31,376	31,612	M 45 x 4	5H	45,000	42,402	42,638	40,670	41,145
	6H	33,000	32,026	32,226	31,376	31,676		6H	45,000	42,402	42,702	40,670	41,270
	7H	33,000	32,026	32,276	31,376	31,751		7H	45,000	42,402	42,777	40,670	41,420
M 33 x 2	5H	33,000	31,701	31,881	30,835	31,135	M 48 x 1,5	5H	48,000	47,026	47,196	46,376	46,612
	6H	33,000	31,701	31,925	30,835	31,210		6H	48,000	47,026	47,238	46,376	46,676
	7H	33,000	31,701	31,981	30,835	31,310		7H	48,000	47,026	47,291	46,376	46,751
M 33 x 3	5H	33,000	31,051	31,263	29,752	30,152	M 48 x 2	5H	48,000	46,701	46,891	45,835	46,135
	6H	33,000	31,051	31,316	29,752	30,252		6H	48,000	46,701	46,937	45,835	46,210
	7H	33,000	31,051	31,386	29,752	30,382		7H	48,000	46,701	47,001	45,835	46,310
M 35 x 1,5	5H	35,000	34,026	34,186	33,376	33,612	M 48 x 3	5H	48,000	46,051	46,275	44,752	45,152
	6H	35,000	34,026	34,226	33,376	33,676		6H	48,000	46,051	46,331	44,752	45,252
	7H	35,000	34,026	34,276	33,376	33,751		7H	48,000	46,051	46,406	44,752	45,382



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ISO-METRIC FINE THREAD  
FILETAGE MÉTRIQUE ISO FINE  
ROSCA ISO-METRICA FINA

DIN 13

Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau		Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau	
			D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.				D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.
M 48x4	5H	48,000	45,402	45,652	43,670	44,145	M 60 x 1,5	5H	60,000	59,026	59,196	58,376	58,612
	6H	48,000	45,402	45,717	43,670	44,270		6H	60,000	59,026	59,238	58,376	58,676
	7H	48,000	45,402	45,802	43,670	44,420		7H	60,000	59,026	59,291	58,376	58,751
M 50 x 15	5H	50,000	49,026	49,196	48,376	48,612	M 60 x 2	5H	60,000	58,701	58,891	57,835	58,135
	6H	50,000	49,026	49,238	48,376	48,676		6H	60,000	58,701	58,937	57,835	58,210
	7H	50,000	49,026	49,291	48,376	48,751		7H	60,000	58,701	59,001	57,835	58,310
M 50 x 2	5H	50,000	48,701	48,891	47,835	48,135	M 60 x 3	5H	60,000	58,051	58,275	56,752	57,152
	6H	50,000	48,701	48,937	47,835	48,210		6H	60,000	58,051	58,331	56,752	57,252
	7H	50,000	48,701	49,001	47,835	48,310		7H	60,000	58,051	58,406	56,752	57,382
M 50 x 3	5H	50,000	48,051	48,275	46,752	47,152	M 60 x 4	5H	60,000	57,402	57,652	55,670	56,145
	6H	50,000	48,051	48,331	46,752	47,252		6H	60,000	57,402	57,717	55,670	56,270
	7H	50,000	48,051	48,406	46,752	47,382		7H	60,000	57,402	57,802	55,670	56,420
M 52 x 1,5	5H	52,000	51,026	51,196	50,376	50,612	M 62 x 1,5	5H	62,000	61,026	61,196	60,376	60,612
	6H	52,000	51,026	51,238	50,376	50,676		6H	62,000	61,026	61,238	60,376	60,676
	7H	52,000	51,026	51,291	50,376	50,751		7H	62,000	61,026	61,291	60,376	60,751
M 52 x 2	5H	52,000	50,701	50,891	49,835	50,135	M 62 x 2	5H	62,000	60,701	60,891	59,835	60,135
	6H	52,000	50,701	50,937	49,835	50,210		6H	62,000	60,701	60,937	59,835	60,210
	7H	52,000	50,701	51,001	49,835	50,310		7H	62,000	60,701	61,001	59,835	60,310
M 52 x 3	5H	52,000	50,051	50,275	48,752	49,152	M 62 x 3	5H	62,000	60,051	60,275	58,752	59,152
	6H	52,000	50,051	50,331	48,752	49,252		6H	62,000	60,051	60,331	58,752	59,252
	7H	52,000	50,051	50,406	48,752	49,382		7H	62,000	60,051	60,406	58,752	59,382
M 52 x 4	5H	52,000	49,402	49,652	47,670	48,145	M 62 x 4	5H	62,000	59,402	59,652	57,670	58,145
	6H	52,000	49,402	49,717	47,670	48,270		6H	62,000	59,402	59,717	57,670	58,270
	7H	52,000	49,402	49,802	47,670	48,420		7H	62,000	59,402	59,802	57,670	58,420
M 55 x 1,5	5H	55,000	54,026	54,196	53,376	53,612	M 64 x 1,5	5H	64,000	63,026	63,196	62,376	62,612
	6H	55,000	54,026	54,238	53,376	53,676		6H	64,000	63,026	63,238	62,376	62,676
	7H	55,000	54,026	54,291	53,376	53,751		7H	64,000	63,026	63,291	62,376	62,751
M 55 x 2	5H	55,000	53,701	53,891	52,835	53,135	M 64 x 2	5H	64,000	62,701	62,891	61,835	62,135
	6H	55,000	53,701	53,937	52,835	53,210		6H	64,000	62,701	62,937	61,835	62,210
	7H	55,000	53,701	54,001	52,835	53,310		7H	64,000	62,701	63,001	61,835	62,310
M 55 x 3	5H	55,000	53,051	53,275	51,752	52,152	M 64 x 3	5H	64,000	62,051	62,275	60,752	61,152
	6H	55,000	53,051	53,331	51,752	52,252		6H	64,000	62,051	62,331	60,752	61,252
	7H	55,000	53,051	53,406	51,752	52,382		7H	64,000	62,051	62,406	60,752	61,382
M 55 x 4	5H	55,000	52,402	52,652	50,670	51,145	M 64 x 4	5H	64,000	61,402	61,652	59,670	60,145
	6H	55,000	52,402	52,717	50,670	51,270		6H	64,000	61,402	61,717	59,670	60,270
	7H	55,000	52,402	52,802	50,670	51,420		7H	64,000	61,402	61,802	59,670	60,420
M 56 x 1,5	5H	56,000	55,026	54,196	54,376	54,612	M 65 x 1,5	5H	65,000	64,026	64,196	63,376	64,612
	6H	56,000	55,026	55,238	54,376	54,676		6H	65,000	64,026	64,238	63,376	63,676
	7H	56,000	55,026	55,291	54,376	54,751		7H	65,000	64,026	64,291	63,376	63,751
M 56 x 2	5H	56,000	54,701	54,891	53,835	54,135	M 65 x 2	5H	65,000	63,701	63,891	62,835	63,135
	6H	56,000	54,701	54,937	53,835	54,210		6H	65,000	63,701	63,937	62,835	63,210
	7H	56,000	54,701	55,001	53,835	54,310		7H	65,000	63,701	64,001	62,835	63,310
M 56 x 3	5H	56,000	54,051	54,275	52,752	53,152	M 65 x 3	5H	65,000	63,051	63,275	61,752	62,152
	6H	56,000	54,051	54,331	52,752	53,252		6H	65,000	63,051	63,331	61,752	62,252
	7H	56,000	54,051	54,406	52,752	53,382		7H	65,000	63,051	63,406	61,752	62,382
M 56 x 4	5H	56,000	53,402	53,652	51,670	52,145	M 65 x 4	5H	65,000	62,402	62,652	60,670	61,145
	6H	56,000	53,402	53,717	51,670	52,270		6H	65,000	62,402	62,717	60,670	61,270
	7H	56,000	53,402	53,802	51,670	52,420		7H	65,000	62,402	62,802	60,670	61,420
M 58 x 1,5	5H	58,000	57,026	57,196	56,376	56,612	M 68 x 1,5	5H	68,000	67,026	67,196	66,376	66,612
	6H	58,000	57,026	57,238	56,376	56,676		6H	68,000	67,026	67,238	66,376	66,676
	7H	58,000	57,026	57,291	56,376	56,751		7H	68,000	67,026	67,291	66,376	66,751
M 58 x 2	5H	58,000	56,701	56,891	55,835	56,135	M 68 x 2	5H	68,000	66,701	66,891	65,835	66,135
	6H	58,000	56,701	56,937	55,835	56,210		6H	68,000	66,701	66,937	65,835	66,210
	7H	58,000	56,701	57,001	55,835	56,310		7H	68,000	66,701	67,001	65,835	66,310
M 58 x 3	5H	58,000	56,051	56,275	54,752	55,152	M 68 x 3	5H	68,000	66,051	66,275	64,752	65,152
	6H	58,000	56,051	56,331	54,752	55,252		6H	68,000	66,051	66,331	64,752	65,252
	7H	58,000	56,051	56,406	54,752	55,382		7H	68,000	66,051	66,406	64,752	65,382
M 58 x 4	5H	58,000	55,402	55,652	53,670	54,145	M 68 x 4	5H	68,000	65,402	65,652	63,670	64,145
	6H	58,000	55,402	55,717	53,670	54,270		6H	68,000	65,402	65,717	63,670	64,270
	7H	58,000	55,402	55,802	53,670	54,420		7H	68,000	65,402	65,802	63,670	64,420

NUT  
ÉCROU  
TUERCA



ISO-METRIC FINE THREAD  
FILETAGE MÉTRIQUE ISO FINE  
ROSCA ISO-METRICA FINA

DIN 13

Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau		Rosca Thread Filet D x P	Tolerancia Tolerance Tolérance	Ø Exterior Outside Ø Ø Extérieur	Ø Medio Pitch Ø / Ø Moyen		Ø Núcleo Core Ø / Ø Noyau	
			D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.				D <sub>2</sub> min.	D <sub>2</sub> máx.	D <sub>1</sub> min.	D <sub>1</sub> máx.
M 70 x 1,5	5H	70,000	69,026	69,196	68,376	68,612	M 80 x 2	5H	80,000	78,701	78,891	77,835	78,135
	6H	70,000	69,026	69,238	68,376	68,676		6H	80,000	78,701	78,937	77,835	78,210
	7H	70,000	69,026	69,291	68,376	68,751		7H	80,000	78,701	79,001	77,835	78,310
M 70 x 2	5H	70,000	68,701	68,891	67,835	68,135	M 80 x 3	5H	80,000	78,051	78,275	76,752	77,152
	6H	70,000	68,701	68,937	67,835	68,210		6H	80,000	78,051	78,331	76,752	77,252
	7H	70,000	68,701	69,001	67,835	68,310		7H	80,000	78,051	78,406	76,752	77,382
M 70 x 3	5H	70,000	68,051	68,275	66,752	67,152	M 80 x 4	5H	80,000	77,402	77,652	75,670	76,145
	6H	70,000	68,051	68,331	66,752	67,252		6H	80,000	77,402	77,717	75,670	76,270
	7H	70,000	68,051	68,406	66,752	67,382		7H	80,000	77,402	77,802	75,670	76,420
M 70 x 4	5H	70,000	67,402	67,652	65,670	66,145	M 80 x 6	5H	80,000	76,103	76,403	73,505	74,135
	6H	70,000	67,402	67,717	65,670	66,270		6H	80,000	76,103	76,478	73,505	74,305
	7H	70,000	67,402	67,802	65,670	66,420		7H	80,000	76,103	76,578	73,505	74,505
M 70 x 6	5H	70,000	66,103	66,403	63,505	64,135	M 85 x 2	5H	85,000	83,701	83,891	82,835	83,135
	6H	70,000	66,103	66,478	63,505	64,305		6H	85,000	83,701	83,937	82,835	83,210
	7H	70,000	66,103	66,578	63,505	64,505		7H	85,000	83,701	84,001	82,835	83,310
M 72 x 1,5	5H	72,000	71,026	71,196	70,376	70,612	M 85 x 3	5H	85,000	83,051	83,275	81,752	82,152
	6H	72,000	71,026	71,238	70,376	70,676		6H	85,000	83,051	83,331	81,752	82,252
	7H	72,000	71,026	71,291	70,376	70,751		7H	85,000	83,051	83,406	81,752	82,382
M 72 x 2	5H	72,000	70,701	70,891	69,835	70,135	M 85 x 4	5H	85,000	82,402	82,652	80,670	81,145
	6H	72,000	70,701	70,937	69,835	70,210		6H	85,000	82,402	82,717	80,670	81,270
	7H	72,000	70,701	71,001	69,835	70,310		7H	85,000	82,402	82,802	80,670	81,420
M 72 x 3	5H	72,000	70,051	70,275	68,752	69,152	M 85 x 6	5H	85,000	81,103	81,403	78,505	79,135
	6H	72,000	70,051	70,331	68,752	69,252		6H	85,000	81,103	81,478	78,505	79,305
	7H	72,000	70,051	70,406	68,752	69,382		7H	85,000	81,103	81,578	78,505	79,505
M 72 x 4	5H	72,000	69,402	69,652	67,670	68,145	M 90 x 2	5H	90,000	88,701	88,891	87,835	88,135
	6H	72,000	69,402	69,717	67,670	68,270		6H	90,000	88,701	88,937	87,835	88,210
	7H	72,000	69,402	69,802	67,670	68,420		7H	90,000	88,701	89,001	87,835	88,310
M 72 x 6	5H	72,000	68,103	68,403	65,505	66,135	M 90 x 3	5H	90,000	88,051	88,275	86,752	87,152
	6H	72,000	68,103	68,478	65,505	66,305		6H	90,000	88,051	88,331	86,752	87,252
	7H	72,000	68,103	68,578	65,505	66,505		7H	90,000	88,051	88,406	86,752	87,382
M 75 x 1,5	5H	75,000	74,026	74,196	73,376	73,612	M 90 x 4	5H	90,000	87,402	87,652	85,670	86,145
	6H	75,000	74,026	74,238	73,376	73,676		6H	90,000	87,402	87,717	85,670	86,270
	7H	75,000	74,026	74,291	73,376	73,751		7H	90,000	87,402	85,802	85,670	86,420
M 75 x 2	5H	75,000	73,701	73,891	72,835	73,135	M 90 x 6	5H	90,000	86,103	86,403	83,505	84,135
	6H	75,000	73,701	73,937	72,835	73,210		6H	90,000	86,103	86,478	83,505	84,305
	7H	75,000	73,701	74,001	72,835	73,310		7H	90,000	86,103	86,578	83,505	84,505
M 75 x 3	5H	75,000	73,051	73,275	71,752	72,152	M 95 x 2	5H	95,000	93,701	93,901	92,835	93,135
	6H	75,000	73,051	73,331	71,752	72,252		6H	95,000	93,701	93,951	92,835	93,210
	7H	75,000	73,051	73,406	71,752	72,382		7H	95,000	93,701	94,016	92,835	93,310
M 75 x 4	5H	75,000	72,402	72,652	70,670	71,145	M 95 x 3	5H	95,000	93,051	93,287	91,752	92,152
	6H	75,000	72,402	72,717	70,670	71,270		6H	95,000	93,051	93,351	91,752	92,252
	7H	75,000	72,402	72,802	70,670	71,420		7H	95,000	93,051	93,426	91,752	92,382
M 76 x 1,5	5H	76,000	75,026	75,196	74,376	74,612	M 95 x 4	5H	95,000	92,402	92,667	90,670	91,145
	6H	76,000	75,026	75,238	74,376	74,676		6H	95,000	92,402	92,737	90,670	91,270
	7H	76,000	75,026	75,291	74,376	74,751		7H	95,000	92,402	92,827	90,670	91,420
M 76 x 2	5H	76,000	74,701	74,891	73,835	74,135	M 95 x 6	5H	95,000	91,103	91,418	88,505	89,135
	6H	76,000	74,701	74,937	73,835	74,210		6H	95,000	91,103	91,503	88,505	89,305
	7H	76,000	74,701	75,001	73,835	74,310		7H	95,000	91,103	91,603	88,505	89,505
M 76 x 3	5H	76,000	74,051	74,275	72,752	73,152	M 100 x 2	5H	100,000	98,701	98,901	97,835	98,135
	6H	76,000	74,051	74,331	72,752	73,252		6H	100,000	98,701	98,951	97,835	98,210
	7H	76,000	74,051	74,406	72,752	73,382		7H	100,000	98,701	99,016	97,835	98,310
M 76 x 4	5H	76,000	73,402	73,652	71,670	72,145	M 100 x 3	5H	100,000	98,051	98,287	96,752	97,152
	6H	76,000	73,402	73,717	71,670	72,270		6H	100,000	98,051	98,351	96,752	97,252
	7H	76,000	73,402	73,802	71,670	72,420		7H	100,000	98,051	98,426	96,752	97,382
M 76 x 6	5H	76,000	72,103	72,403	69,505	70,135	M 100 x 4	5H	100,000	97,402	97,667	95,670	96,145
	6H	76,000	72,103	72,478	69,505	70,305		6H	100,000	97,402	97,737	95,670	96,270
	7H	76,000	72,103	72,578	69,505	70,505		7H	100,000	97,402	97,824	95,670	96,420
M 80 x 1,5	5H	80,000	79,026	79,196	78,376	78,612	M 100 x 6	5H	100,000	96,103	96,418	93,505	94,135
	6H	80,000	79,026	79,238	78,376	78,676		6H	100,000	96,103	96,503	93,505	94,305
	7H	80,000	79,026	79,291	78,376	78,751		7H	100,000	96,103	96,603	93,505	94,505