



•Grupo Industrial: 519-5010
 •Grupo Ferretero: 519-5050
 •Grupo Equipamiento: 519-5040
 •Grupo Automotriz: 519-5030
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Tabla de Roscas, Equivalencias y Conversiones

ROSCA UNS - 60° Unified Standard Thread Corriente			ROSCA UNS - 60° Unified Standard Thread FINA			ROSCA CAÑERÍA CÓNICA N.P.T.			
Tamaño	Hilos por Pulg.	Broca recomendada para macho 1 2	Tamaño	Hilos por Pulg.	Broca recomendada para macho 1 2	Tamaño	Hilos por Pulg.	Broca recomendada para macho 1 2	
1/16	60	1.2 mm 3/64	1/16	64	1.2 mm 3/64	1/8	27	8.4 mm	21/64
3/32	48	1.9 mm	3/32	50	1.9 mm	1/4	18	10.8 mm	27/64
1/8	40	2.6 mm	5/32	36	3.3 mm	3/8	18	14.5 mm	9/16
5/32	32	3.2 mm 1/8	3/16	32	4.1 mm	1/2	14	17.75 mm	11/16
3/16	24	3.8 mm	7/32	32	4.9 mm	3/4	14	23 mm	29/32
7/32	24	4.6 mm				1	11.1/2	29 mm	1.1/8
						1.1/4	11.1/2	38 mm	
						1.1/2	11.1/2	44 mm	
						2"	11.1/2	56 mm	
						2.1/2	8	67 mm	
						3	8	83 mm	
ROSCA NC - 60° ROSCA NF - 60° National Coarse - Corriente			ROSCA NF - 60° National Fine - Fina			ROSCA CAÑERÍA RECTA N.P.S.			
Tamaño	Hilos por Pulg.	Broca recomendada para macho 1 2	Tamaño	Hilos por Pulg.	Broca recomendada para macho 1 2	Tamaño	Hilos por Pulg.	Broca recomendada para macho 1 2	
Nº 1	64	1.5 mm	Nº 0	80	1.2 mm	1/8	27	8.9 mm	11/32
Nº 2	56	1.8 mm	Nº 1	72	1.5 mm	1/4	18	11.5 mm	29/64
Nº 3	48	2.1 mm	Nº 2	64	1.8 mm - 1.9 mm	3/8	18	15 mm	19/32
Nº 4	40	2.3 mm	Nº 3	56	2.1 mm	1/2	14	18.5 mm	23/32
Nº 5	40	2.6 mm	Nº 4	48	2.4 mm - 3/32	3/4	14	24 mm	15/16
Nº 6	32	2.75 mm - 2.8 mm	Nº 5	44	2.7 mm	1	11.1/2	30 mm	1.3/16
Nº 8	32	3.6 mm	Nº 6	40	2.9 mm				
Nº 10	24	3.8 mm - 3.9 mm	Nº 8	36	3.5 mm - 9/64				
Nº 12	24	4.5 mm	Nº 10	32	4.1 mm				
1/4	20	5.2 mm - 13/64	Nº 12	28	4.6 mm - 4.7 mm				
9/32	20	5.8 mm - A	1/4	28	5.5 mm - 7/32				
5/16	18	6.5 mm - F	9/32	28	5.7 mm - A				
3/8	16	8 mm 5/16	5/16	24	6.9 mm - I				
7/16	14	9.3 mm - U	3/8	24	8.5 mm - Q				
1/2	13	10.8 mm - 27/64	7/16	20	9.9 mm - 25/64				
9/16	12	12.2 mm - 31/64	1/2	20	11.5 mm - 29/64				
5/8	11	13.5 mm - 17/32	9/16	18	12.8 mm - 33/64				
11/16	11	15 mm - 19/32	5/8	18	14.5 mm - 37/64				
3/4	10	16.5 mm - 21/32	11/16	16	16 mm - 5/8				
13/16	10	17.6 mm - 23/32	11/16	18	16 mm - 21/32				
7/8	9	19.5 mm - 3/4	3/4	16	17.5 mm - 11/16				
15/16	9	21 mm - 27/32	13/16	16	18/6 mm - 23/32				
1"	8	22 mm - 7/8	7/8	14	20.5 mm - 13/16				
1.1/16	8	22.6 mm - 29/32	15/16	14	21.8 mm - 7/8				
1.1/8	7	25 mm - 31/32	1"	12	23.5 mm - 15/16				
1.3/16	7	26 mm - 1.1/16	1"	14	23.5 mm - 15/16				
1.1/4	7	28 mm - 1.3/32	1.1/16	14	25 mm - 31/32				
1.3/8	6	30.5 mm - 1.7/32	1.1/8	12	26.5 mm - 1.1/32				
1.1/2	6	33.5 mm - 1.5/16	1.3/16	12	28.1 mm - 1.3/32				
			1.1/4	12	29.5 mm - 1.5/32				
			1.3/8	12	33 mm - 1.19/64				
			1.1/2	12	36 mm - 1.27/64				
						ROSCA MÉTRICA CORRIENTE DIN 60°			
Tamaño	Ascensión	Broca recomendada para macho 1 2							
M 2	0.4	1.6 mm	1.5						
M 2.3	0.4	1.9 mm	1.8						
M 2.6	0.45	2.15 mm	2.1						
M 3	0.5	2.5 mm	2.45						
M 3.5	0.6	2.9 mm	2.8						
M 4	0.7	3.3 mm	3.2						
M 4.5	0.75	3.7 mm	3.6						
M 5	0.8	4.2 mm	4.1						
M 5.5	0.9	4.6 mm	4.5						
M 6	1.0	5 mm	4.9						
M 7	1.0	6 mm	5.9						
M 8	1.25	6.7 mm	6.6						
M 9	1.25	7.8 mm	7.7						
M 10	1.5	8.4 mm	8.2						
M 11	1.5	9.5 mm	9.4						
M 12	1.75	10 mm	9.9						
M 13	1.75	11.2 mm	11						
M 14	2.0	11.75 mm	11.5						
M 15	2.0	13 mm	12.8						
M 16	2.0	13.75 mm	13.5						
M 17	2.0	15 mm	14.8						
M 18	2.5	15.25 mm	15						
M 19	2.5	16.5 mm							
M 20	2.5	17.5 mm							
M 21	2.5	18.7 mm							
M 22	2.5	19.5 mm							
M 23	2.5	20.5 mm							
M 24	3.0	21 mm							
M 26	3.0	23 mm							
M 27	3.0	24 mm							

Tabla de Equivalencias



FRAC.	mm	Galga	Pulg.	FRAC.	mm	Galga	Pulg.	FRAC.	mm	Galga	Pulg.	FRAC.	mm	Pulg.	FRAC.	mm	Pulg.	FRAC.	mm	Pulg.
	.32		.0126		2.184	44	.0860		5.7		.2244		11.1	.4370	7/8	22.225	.8750	1.33/64	33.497	1.5156
	.343	80	.0135		2.2		.0866		5.791	1	.2280	7/16	11.112	.4375		22.25	.8760		38.5	1.5157
	.35		.0138		2.25		.0886		5.8		.2283		11.2	.4409		22.5	.8858	1.17/32	38.894	1.5321
	.368	79	.0145		2.261	43	.0890		5.9		.2323		11.3	.4449	57/64	22.622	.8906		39.0	1.5354
	.38		.0150		2.3		.0906		5.944	A	.2340		11.4	.4438		22.75	.8957	1.35/64	39.291	1.5469
1/64	.397		.0156		2.35		.0925	15/64	5.953		.2344		11.5	.4528		23.00	.9055		39.5	1.5551
	.4		.0157		2.375	42	.0935		6.00		.2362	29/64	11.509	.4531	29/32	23.019	.9062	1.9/16	39.688	1.5625
	.406	78	.0160	3/32	2.381		.0938		6.045	B	.2380		11.6	.4567		23.25	.9154		40.0	1.5748
	.42		.0165		2.4		.0945		6.1		.2402		11.7	.4606	59/64	23.416	.9219	1.37/64	40.084	1.5781
	.45		.0177		2.438	41	.0960		6.147	C	.2420		11.8	.4646		23.5	.9252	1.19/32	40.481	1.5938
	.457	77	.0180		2.45		.0965		6.2		.2441		11.9	.4685		23.75	.9350		40.5	1.5945
	.48		.0189		2.489	40	.0980		6.248	D	.2460	15/32	11.906	.4688	15/16	23.812	.9375	1.39/64	40.878	1.6094
	.5		.0197		2.5		.0984		6.3		.2480		12.00	.4724		24.00	.9449		41.0	1.6142
	.508	76	.0200		2.527	39	.0995	1/4	6.350	E	.2500		12.1	.4764	61/64	24.209	.9531	1.5/8	41.275	1.6250
	.52		.0205		2.55		.1004		6.4		.2520		12.2	.4803		24.25	.9547		41.5	1.6339
	.533	75	.0210		2.578	38	.1015		6.5		.2559		12.3	.4843		24.5	.9446	1.41/64	41.672	1.6406
	.55		.0217		2.6		.1024		6.528	F	.2570	31/64	12.303	.4844	31/32	24.606	.9688		42.0	1.6535
	.572	74	.0225		2.642	37	.1040		6.6		.2598		12.4	.4882		24.75	.9744	1.21/32	42.069	1.6562
	.58		.0228		2.65		.1043		6.629	G	.2610		12.5	.4921		25.00	.9843	1.43/64	42.466	1.6719
	.6		.0236		2.7		.1063		6.7		.2638		12.6	.4961	63/64	25.003	.9844		42.5	1.6732
	.610	73	.0240		2.705	36	.1065	17/64	6.747		.2656	1/2	12.7	.5000		25.25	.9941	1.11/16	42.862	1.6875
	.62		.0244		2.75		.1083		6.756	H	.2660		12.8	.5039	1	25.400	1.0000		43.0	1.6929
	.635	72	.0250	7/64	2.778		.1094		6.8		.2677		12.9	.5079		25.5	1.0039	1.45/64	43.259	1.7031
	.65		.0256		2.794	35	.1100		6.9		.2717		13.00	.5118		25.75	1.0138		43.5	1.7126
	.660	71	.0260		2.8		.1102		6.909	I	.2720	33/64	13.097	.5156	1.1/64	25.797	1.0156	1.23/32	43.656	1.7188
	.68		.0268		2.819	34	.1110		7.00		.2756		13.1	.5158		26.0	1.0236		44.0	1.7323
	.7		.0276		2.85		.1122		7.036	J	.2770		13.2	.5197	1.1/32	26.194	1.0312	1.47/64	44.053	1.7344
	.711	70	.0280		2.870	33	.1130		7.1		.2795		13.3	.5236		26.25	1.0335	1.3/4	44.450	1.7500
	.72		.0283		2.9		.1142		7.137	K	.2810		13.4	.5276		26.5	1.0433		44.5	1.7520
	.742	69	.0292		2.946	32	.1160	9/32	7.144		.2812	17/32	13.494	.5312	1.3/64	26.591	1.0469	1.49/64	44.847	1.7656
	.75		.0295		2.95		.1161		7.2		.2835		13.5	.5315		26.75	1.0531		45.0	1.7716
	.78		.0307		3.00		.1181		7.3		.2874		13.6	.5354	1.1/16	26.988	1.0625	1.25/32	45.244	1.7812
1/32	.787	68	.0310		3.048	31	.1200		7.366	L	.2900		13.7	.5394		27.0	1.0630		45.5	1.7913
	.794		.0312		3.1		.1220		7.4		.2913		13.8	.5433		27.25	1.0728	1.51/64	45.641	1.7969
	.8		.0315	1/8	3.175		.1250		7.493	M	.2950	35/64	13.891	.5469	1.5/64	27.384	1.0781		46.0	1.8110
	.813	67	.0320		3.2		.1260		7.5		.2953		13.9	.5472		27.5	1.0827	1.13/16	46.038	1.8125
	.82		.0323		3.264	30	.1285	19/64	7.541		.2969		14.00	.5512		27.75	1.0925	1.53/64	46.434	1.8281
	.838	66	.0330		3.3		.1299		7.6		.2992		14.25	.5610	1.3/32	27.781	1.0938		46.5	1.8307
	.85		.0335		3.4		.1339		7.671	N	.3020	9/16	14.288	.5625		28.0	1.1024	1.27/32	46.831	1.8438
	.88		.0346		3.454	29	.1360		7.7		.3031		14.5	.5709	1.7/64	28.178	1.1094		47.0	1.8504
	.889	65	.0350		3.5		.1378		7.8		.3071	37/64	14.684	.5781		28.25	1.1122	1.55/64	47.228	1.8594
	.9		.0354		3.569	28	.1405		7.9		.3110		14.75	.5807		28.5	1.1220		47.5	1.8701
	.914	64	.0360	9/64	3.572		.1406	5/16	7.938		.3125		15.00	.5906	1.1/8	28.575	1.1250	1.7/8	47.625	1.8750
	.92		.0362		3.6		.1417		8.00		.3150	19/32	15.081	.5938		28.75	1.1319		48.0	1.8898
	.940	63	.0370		3.658	27	.1440		8.026	O	.3160		15.25	.6004	1.9/64	28.972	1.1406	1.57/64	48.022	1.8906
	.95		.0374		3.7		.1457		8.1		.3189	39/64	15.478	.6094		29.0	1.1417	1.29/32	48.419	1.9062
	.965	62	.0380		3.734	26	.1470		8.2		.3228		15.5	.6102		29.25	1.1516		48.5	1.9094
	.98		.0386		3.797	25	.1495		8.204	P	.3230		15.75	.6201	1.5/32	29.369	1.1562	1.59/64	48.816	1.9219
	.991	61	.0390		3.8		.1496		8.3		.3268	5/8	15.875	.6250		29.5	1.1614		49.0	1.9291
	1.00		.0394		3.861	24	.1520	21/64	8.334		.3281		16.00	.6299		29.75	1.1713	1.15/16	49.212	1.9375
	1.016	60	.0400		3.9		.1535		8.4		.3307		16.25	.6398	1.11/64	29.766	1.1719		49.5	1.9488
	1.041	59	.0410		3.912	23	.1540		8.433	Q	.3320	41/64	16.272	.6406		30.0	1.1811	1.61/64	49.609	1.9531
	1.05		.0413	5/32	3.969		.1562		8.5		.3346		16.5	.6496	1.3/16	30.162	1.1875		50.0	1.9685
	1.067	58	.0420		3.988	22	.1570		8.6		.3386	21/32	16.669	.6562		30.25	1.1909	1.31/32	50.006	1.9688
	1.092	57	.0430		4.00		.1575		8.611	R	.3390		16.75	.6594		30.5	1.2008	1.63/64	50.403	1.9844
	1.1		.0433		4.039	21	.1590		8.7		.3425		17.00	.6693	1.13/64	30.559	1.2031		50.50	1.9882
	1.15		.0453		4.089	20	.1610	11/32	8.731		.3438	43/64	17.066	.6719		30.75	1.2106	2	50.800	2.0000
	1.181	56	.0465		4.1		.1614		8.8		.3465		17.25	.6791	1.7/32	30.956	1.2188		51.0	2.0079
	1.191		.0469		4.2		.1654		8.839	S	.3480	11/16	17.462	.6875		31.0	1.2205	2.1/32	51.594	2.0312
	1.2		.0472		4.216	19	.1660		8.9		.3504		17.5	.6890		31.25	1.2303		52.0	2.0472
	1.25		.0492		4.25		.1673		9.00		.3543		17.75	.6988	1.15/64	31.353	1.2344	2.1/16	52.388	2.0625
	1.3		.0512		4.3		.1693		9.093	T	.3580	45/64	17.859	.7031		31.5	1.2402		53.0	2.0866
	1.321	55	.0520		4.305	18	.1695		9.1		.3583		18.00	.7087	1.1/4	31.75	1.2500	2.3/32	53.181	2.0938
	1.35		.0531	11/64	4.366		.1719	23/64	9.128		.3594		18.25	.7185		32.0	1.2598	2.1/8	53.975	2.1250
	1.397	54	.0550		4.394	17	.1730		9.2		.3622	23/32	18.256	.7188	1.17/64	32.147	1.2656		54.0	2.1260
	1.4		.0551		4.4		.1732		9.3		.3661		18.5	.7283		32.5	1.2795	2.5/32	54.769	2.1562
	1.45		.0571		4.496	16	.1770		9.347	U	.3680	47/64	18.653	.7344	1.9/32	32.544	1.2812		55.0	2.1654
	1.5		.0591		4.5		.1772		9.4		.3701		18.75	.7382		32.766	1.290	2.3/16	55.562	2.1875
	1.511	53	.0595		4.572	15	.1800		9.5		.3740		19.00	.7480	1.19/64	32.941	1.2969		56.0	2.2047
	1.55		.0610		4.6		.1811	3/8	9.525		.3750	3/4	19.050	.7500		33.0	1.2992	2.7/32	56.356	2.2188
	1.588		.0625		4.623	14	.1820		9.576	V	.3770		19.25	.7579	1.5/16	33.338	1.3125		57.0	2.2441
	1.6		.0630		4.7	13	.1850		9.6		.3780	49/64	19.447	.7656		33.5	1.3189	2.1/4	57.150	2.2500
	1.613																			

ROSCA MÉTRICA FINA DIN 60°		
Tamaño	Ascensión	Broca recomendada para macho 1 2
M 2	0.25	1.75 mm
M 2.3	0.25	2.1 mm
M 2.6	0.35	2.25 mm
M 3	0.35	2.6 mm 7/64"
M 3.5	0.35	3.1 mm
M 4	0.50	3.5 mm 9/64"
M 4.5	0.50	4 mm 5/32"
M 5	0.50	4.5 mm
M 5.5	0.50	5 mm
M 6	0.75	5.2 mm 13/64"
M 7	0.75	6.2 mm C
M 8	0.75	7.2 mm 9/32"
M 8	1.00	7 mm
M 9	0.75	8.2 mm
M 9	1.00	8 mm 5/16"
M 10	0.75	9.2 mm 23/64"
M 10	1.00	9 mm
M 10	1.25	8.8 mm
M 11	0.75	10.2 mm
M 11	1.00	10 mm
M 12	1.00	11 mm 27/64"
M 12	1.25	10.8 mm 27/64"
M 12	1.50	10.5 mm
M 13	1.50	11.1 mm
M 14	1.00	13 mm
M 14	1.25	12.8 mm 1/2"
M 14	1.50	12.5 mm
M 15	1.00	14.0 mm
M 15	1.50	13.5 mm
M 16	1.00	15 mm 19/32"
M 16	1.50	14.5 mm 37/64"
M 17	1.00	16 mm 5/8"
M 17	1.50	15.5 mm 39/64"
M 18	1.00	17 mm
M 18	1.50	16.5 mm 21/32"
M 18	2.00	16 mm 5/8"
M 19	1.50	17.5 mm
M 20	1.00	19 mm 3/4"
M 20	1.50	18.5 mm 23/32"
M 20	2.00	18 mm
M 21	1.50	19.5 mm
M 22	1.00	21 mm
M 22	1.50	20.5 mm 13/16"
M 22	2.00	20 mm 25/32"
M 23	1.50	21.5 mm
M 24	1.00	23 mm 29/32"
M 24	1.50	22.5 mm
M 24	2.00	22 mm
M 25	1.00	24 mm 15/16"
M 25	1.50	23.5 mm
M 25	2.00	23 mm 29/32"
M 26	1.50	24.5 mm 31/32"
M 27	1.00	26 mm 1.1/64"
M 27	1.50	25.5 mm 1"
M 27	2.00	25 mm
M 30	2.0	

- 1- Para acero, zinc, aluminio, plástico, etc.
2- Para fundición gris, bronce, cobre, magnesio.

PRESIÓN		
Multiplique	por	Para obtener
Atmósfera (atm) (14,6959 lb/pulg. ²)	101.325	Pascal (Pa)
Bar	100.000	Pascal (Pa)
Bar	14.50377	Lbf/in ²
Bar	100.000	Newton/m ² (N/m ²)
Kgf/cm ²	14.22334	Lbf/in ²
Kgf/m ²	9.806650	Newton/m ² (N/m ²)
Kgf/m ²	9.806650	Pascal (Pa)
Kgf/m ²	0.2048161	Lb/ft ²
Kilonewton/m ²	0.1450377	Lbf/in ²
Newton/cm ²	1.450377	Lbf/in ²
Newton/m ²	0.00001	Bar
Newton/m ²	1.0	Pascal (Pa)
Newton/m ²	0.0001450377	Lbf/in ²
Newton/m ²	0.1019716	Kilogram/m ²
Pascal	[9.86923x10 ⁻⁶]	Atmósfera (atm)
Pascal	0.00001	Bar
Pascal	0.1019716	Kilogram/m ²
Pascal	1.0	Newton/m ² (N/m ²)
Pascal	0.02088543	Lb/ft ²
Pascal	0.0001450377	Lbf/in ²
Lbf/ft ²	4.882429	Kilogram/m ²
Lbf/ft ²	47.88026	Pascal (Pa)
Lbf/in ²	0.06894757	Bar
Lbf/in ²	0.07030697	Kilogram/cm ²
Lbf/in ²	0.6894757	Newton/cm ²
Lbf/in ²	6.894757	Kilonewton/m ²
Lbf/in ²	6894.757	Newton/m ²
Lbf/in ²	6894.757	Pascal (Pa)



Recuerde usar siempre sus equipos de seguridad en su trabajo.

¡Su salud es lo más importante!

Los diámetros de broca mencionados en esta lista corresponden a los promedios recomendados por los principales fabricantes de herramientas de roscar. En caso especiales, otros diámetros podrían ser más adecuados, por lo que le recomendamos consultar a su vendedor de Capris S.A.

Tabla de Conversiones



Potencia			Electricidad		
HP x 747 = Watts			Watts / Voltios = Amperios Amperios x Voltios = Watts		
Watts x 747 = HP			Voltios x Amperios = Watts Watts / Amperios = Voltios		
Multiplique	Por	Para obtener	Multiplique	Por	Para obtener
Capacidad			Peso		
Pintas USA	0.4731	Litros	Libras	0,4536	Kilogramos
Litros	2.1134	Pintas USA	Kilogramos	2.205	Libras
Cuartos USA	0.9463	Litros	Onzas USA	28.35	Gramos
Litros	1.0567	Cuartos USA	Gramos	0.03527	Onzas USA
Galones USA	3.7853	Litros	Quintales USA cortos	45.36	Kilogramos
Litros	0.2642	Galones USA	Kilogramos	0.0220	Quintales USA cortos
Onzas fluidas	2.9568	Centilitros	Toneladas cortas	0.9078	Toneladas métricas
Centilitros	0.3382	Onzas fluidas	Toneladas métricas	1.102	Toneladas cortas
Longitud			Superficie		
Pulgadas	2.5400	Centímetros	Pulgadas ²	6.4516	Centímetros ²
Centímetros	0.3932	Pulgadas	Centímetros ²	0.1550	Pulgadas ²
Pies	30.48	Centímetros	Pies ²	0.0929	Metros ²
Centímetros	0.0328	Pies	Metros ²	10.7636	Pies ²
Pies	0.3048	Metros	Hectáreas	1.4308	Manzanas
Metros	3.2808	Pies	Manzanas	0.69889	Hectáreas
Yardas	0.9144	Metros	Volumen		
Metros	1.0936	Yardas	Pulgadas ³	16.39	Centímetros ³
Varas	0.8361	Metros	Centímetros ³	0.0610	Pulgadas ³
Metros	1.19617	Varas	Onzas fluídas US	29.57	Centímetros ³
Millas	1.6093	Kilómetros	Centímetros	0.0338	Onzas fluidas USA
Kilómetros	0.6214	Millas	Pies ³	0.0283	Metros ³
			Metros ³	35.31337	Pies ³
Conversión de Temperaturas					
°C = (°F - 32) x 5/9			°F = °C x 9/5 + 32		