Frente

CORPORACIÓN INDUSTRIAL, MAC, S.A.
8 avenida 31-77 zona 11, Guatemala - Tel: 2200-8484
www.cimacsa.com

SELECCIÓN DE BROCAS PARA ROSCADO

Numéricos, Fraccionales y Porcentajes de Rosaca

FORMULA PARA OBTENER LA MEDIDA DE BROCA

$$\text{Medida de Broca} = \text{Diam. Exterior de Rosca} - \frac{0.01299 \times \text{\% Rosca}}{\text{No. de Hilos por Pulg.}}$$

Nota: Seleccione la broca comercial más próxima

PORCENTAJE DE ROSCA PARA OTRAS MEDIDAS DE BROCA

$$\text{\% de Rosca} = \text{No. de Hilos por Pulgada} \times \left(\frac{\text{Diam. Exterior de Rosca} - \text{Diam. de Broca Selecc.}}{0.01299} \right)$$

MACHUELO MEDIDA	MACHUELO HILOS x PÚLG.	DIAM. BROCA	EQUIV. DECIMAL	% TEO-RICO ROSCA	MACHUELO MEDIDA	MACHUELO HILOS x PÚLG.	DIAM. BROCA	EQUIV. DECIMAL	% TEO-RICO ROSCA	MACHUELO MEDIDA	MACHUELO HILOS x PÚLG.	DIAM. BROCA	EQUIV. DECIMAL	% TEO-RICO ROSCA
0	80	56	0.0465	83	1/4	28	7/32	0.2188	67	7/8	12	51/64	0.7969	72
		3/64	0.0469	81			2	0.2210	73	7/8	14	51/64	0.7969	84
1	64	54	0.0550	89	1/4	32	7/32	0.2188	77			13/16	0.8125	67
		53	0.0595	67	5/16	18	F	0.2570	77	7/8	16	13/16	0.8125	77
1	72	53	0.0595	75			G	0.2610	71	7/8	20	53/64	0.8281	72
		1/16	0.0625	58			17/64	0.2656	65	15/16	12	55/64	0.8594	72
2	56	51	0.0670	82	5/16	20	17/64	0.2656	72	15/16	16	7/8	0.8750	77
		50	0.0700	69	5/16	24	I	0.2720	75	15/16	12	57/64	0.8906	72
		49	0.0730	56			J	0.2770	66	1	8	7/8	0.8750	77
2	64	50	0.0700	79	5/16	32	9/32	0.2813	77			57/64	0.8906	67
		49	0.0730	64	3/8	16	5/16	0.3125	77	1	12	59/64	0.9219	72
3	48	5/64	0.0781	77			O	0.3160	73			15/16	0.9375	58
		47	0.0785	76			P	0.3230	64	1	14	59/64	0.9219	84
		46	0.0810	67	3/8	20	21/64	0.3281	72			15/16	0.9375	67
3	56	46	0.0810	78	3/8	24	Q	0.3320	79	1	16	15/16	0.9375	77
		45	0.0820	73			R	0.3390	67	1	20	61/64	0.9531	72
		44	0.0960	56	3/8	32	11/32	0.3438	77	1-1/8	7	63/64	0.9844	76
4	40	43	0.0890	71	7/16	14	U	0.3680	75			1	1.0000	67
		42	0.0935	57			3/8	0.3750	67	1-1/8	12	1-1/32	1.0313	87
4	48	42	0.0935	68			V	0.3770	65			1-3/64	1.0469	72
		3/32	0.0938	68	7/16	20	W	0.3860	79	1-1/8	16	1-1/16	1.0625	77
5	40	39	0.0995	79			25/64	0.3906	72	1-1/8	18	1-1/16	1.0625	87
		38	0.1015	72	7/16	24	X	0.3970	75	1-1/4	7	1-3/32	1.0938	84
5	44	38	0.1015	79	7/16	28	Y	0.4040	72			1 7/64	1.1094	76
		37	0.1040	71	1/2	13	27/64	0.4219	78			1-1/8	1.1250	67
6	32	36	0.1065	78			7/16	0.4375	63	1-1/4	12	1- 5/32	1.1563	87
		7/64	0.1094	70	1/2	20	29/64	0.4531	72			1-11/64	1.1719	72
		35	0.1100	69	1/2	24	29/64	0.4531	87	1-1/4	16	1-3/16	1.1875	77
6	40	33	0.1130	77	1/2	28	15/32	0.4688	67	1-1/4	18	1-3/16	1.1875	87
		32	0.1160	68	9/16	12	15/32	0.4688	87	1-3/8	6	1-3/16	1.1875	87
8	32	29	0.1360	69			31/64	0.4844	72			1-13/64	1.2031	79
		28	0.1405	58	9/16	18	1/2	0.5000	87			1-7/32	1.2188	72
8	36	29	0.1360	78			33/64	0.5156	65			1-15/64	1.2344	65
		28	0.1405	68	9/16	24	33/64	0.5156	87	1-3/8	12	1-9/32	1.2812	87
		9/64	0.1406	68	5/8	11	17/32	0.5313	79			1-19/64	1.2969	72
10	24	25	0.1495	75			35/64	0.5469	66	1-3/8	16	1-5/16	1.3125	77
		24	0.1520	70	5/8	12	35/64	0.5469	72	1-3/8	18	1-5/16	1.3125	87
		23	0.1540	67	5/8	18	9/16	0.5625	87	1-1/2	6	1-5/16	1.3125	87
10	32	22	0.1570	81			37/64	0.5781	65			1-21/64	1.3281	79
		21	0.1590	76	5/8	24	37/64	0.5781	87			1-11/32	1.3438	72
		20	0.1610	71	11/16	12	39/64	0.6094	72			1-23/64	1.3594	65
12	24	17	0.1730	79	11/16	24	41/64	0.6406	87	1-1/2	12	1-13/32	1.4062	87
		16	0.1770	72	3/4	10	41/64	0.6406	84			1-27/64	1.4219	72
		15	0.1800	67			21/32	0.6563	72	1-1/2	16	1-7/16	1.4375	77
12	28	15	0.1800	78	3/4	12	43/64	0.6719	72	1-1/2	18	1-7/16	1.4375	87
		14	0.1820	73	3/4	16	11/16	0.6875	77	1-3/4	16	1-11/16	1.6875	77
		13	0.1850	67	3/4	20	45/64	0.7031	72	2	16	1-5/16	1.9375	77
1/4	20	7	0.2010	75	13/16	12	47/64	0.7344	72	2-1/4	16	2-3/16	2.1875	77
		13/64	0.2031	72	13/16	16	3/4	0.7500	77	2-1/2	16	2-7/16	2.4375	77
		6	0.2040	71	13/16	20	49/64	0.7656	72	2-3/4	16	2-11/16	2.6875	77
		5	0.2055	69	7/8	9	49/64	0.7656	76	3	16	2 15/16	2.9375	77
1/4	24	4	0.2090	76			25/32	0.7813	65					

Vuelta

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SELECCIÓN DE BROCAS PARA ROSCADO

Métricas y Porcentajes de Rosca

FORMULA DE ROSCA MÉTRICA

$$\text{Medida de Broca} = \text{Diám. Exterior de Rosca} - \frac{\text{\% Rosca} \times \text{Paso en mm}}{76.980}$$

$$\text{\% de Rosca} = \frac{76.980}{\text{Paso en mm}} \times \left(\text{Diám. Exterior de Rosca} - \text{Medida de Broca Selecc.} \right)$$

MACHUELO	DIAM. BROCA	EQUIV. DECIMAL	% TEO-RICO ROSCA	MACHUELO	DIAM. BROCA	EQUIV. DECIMAL	% TEO-RICO ROSCA	MACHUELO	DIAM. BROCA	EQUIV. DECIMAL	% TEO-RICO ROSCA
M1.6x.35	1.25mm	.0492	77		I	.2720	67	M22 X 1.5	20.5mm	.8071	77
	1.3mm	.0512	66	M8 X 1	7mm	.2756	77		13/16	.8125	70
	# 55	.0520	61		J	.2770	74	M24 X 3	21mm	.8268	77
M1.8x.35	1.45mm	.0571	77	M10 X 1.5	8.5mm	.3346	77		27/32	.8438	66
	1.5mm	.0591	66		R	.3390	71	M24 X 2	22mm	.8661	77
	# 53	.0595	64	M10 X 1.25	8.75mm	.3445	77		7/8	.8750	68
M2x.4	1.6mm	.0630	77		S	.3480	71	M27 X 3	24mm	.9449	77
	# 52	.0635	74	M12 X 1.75	13/32	.4062	74		61/64	.9531	72
M2.2x.45	1.75mm	.0689	77		Z	.4130	66	M27 X 2	25mm	.9843	77
	# 50	.0700	72	M12 X 1.25	27/64	.4219	79		63/64	.9844	77
M2.5x.45	2.05mm	.0700	77		11mm	.4331	62	M30 X 3.5	26.5mm	1.0433	77
	# 45	.0820	71	M14 X 2	12mm	.4724	77		1-1/16	1.0625	66
M3x.5	2.5mm	.0984	77		31/64	.4844	65	M30 X 2	28mm	1.1024	77
	# 39	.0995	73	M14 X 1.5	12.5mm	.4921	77		1-7/64	1.1094	70
M3.5x.6	2.9mm	.1142	77		½	.5000	67	M33 X 3.5	29.5mm	1.1614	77
	# 32	.1160	71	M16 X 2	14mm	.5512	77		1-11/64	1.1719	71
M4X.7	3.3mm	.1299	77		9/16	.5625	66	M33 X 2	31mm	1.2205	77
	3.4mm	.1339	66	M16 X 1.5	14.5mm	.5709	77		1-15/64	1.2344	63
	# 29	.1360	60		37/64	.5781	68	M36 X 4	32mm	1.2598	77
M4.5X.75	3.75mm	.1476	77	M18 X 2.5	15.5mm	.6102	77		1-17/64	1.2656	74
	# 25	.1495	72		5/8	.6250	65	M36 X 3	1-19/64	1.2869	78
M5X.8	4.2mm	.1654	77	M18 X 1.5	16.5mm	.6496	77		33mm	1.2992	77
	# 18	.1695	67		21/32	.6562	68		1-5/16	1.3125	68
M6X 1	5mm	.1969	77	M20 X 2.5	17.5mm	.6890	77	M39 X 4	1-3/8	1.3750	78
	# 8	.1990	73		45/64	.7031	68		35mm	1.3780	77
M7X 1	6mm	.2362	77	M20 X 1.5	18.5mm	.7283	77		1-25/64	1.3906	71
	B	.2380	74		47.64	.7344	69	M39 X 3	36mm	1.4173	77
M8X 1.25	6.75mm	.2657	77	M22 X 2.5	19.5mm	.7677	77		1-27/64	1.4219	74
	6.8mm	.2677	74		25/32	.7812	66				

SELECCIÓN DE BROCAS PARA ROSCADO DE TUBERIA

MACHUELO	* NPT MEDIDA	* NPT EQUIV. DECIMAL	* NPTF MEDIDA	* NPTF EQUIV. DECIMAL	RECTA MEDIDA	RECTA EQUIV. DECIMAL
1/16	D	.2460	D	.2460	1/4	.2500
1/8	Q	.3320	R	.3390	11/32	.3438
1/4	7/16	.4375	7/16	4375	7/16	.4375
3/8	9/16	.5625	37/64	.5781	31/64	.5781
½	45/64	.7031	45/64	.7031	23/32	.7188
3/4	29/32	.9062	59/64	.9219	59/64	.9219
1	1-9/64	1.1406	1-5/32	1.1562	1-5/32	1.1562
1-1/4	1-31/64	1.4844	1-1/2	1.5000	1-1/2	1.5000
1-1/2	1-47/64	1.7344	1-47/64	1.7344	1-3/4	1.7500
2	2-13/64	2.2031	2-7/32	2.2188	2-7/32	2.2188
2-1/2	2-5/8	2.6250	2-41/64	2.6406	2-21/32	2.6562
3			3-17/64	3.2656		

* Para Roscado sin Rimar