



CLEVELAND



ENERO 2020




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Brocas Zanco Recto



Características

ESPECIFICACIONES ANSI	A.A.V
DIN 338	ACABADO OXIDO AL VAPOR
USO GENERAL	38°
ZANCO	118°

Aplicaciones

ACERO AL BAJA CARBON
FUNDICIÓN
ALUMINIO
ALEACIÓN DE COBRE

Clave	Descripción	Long. de Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HCL01071	1/16" (0.0625")	0.875	22.23	1.875	\$47.63	10	\$17.50
HCL01085	5/64" (0.0781")	1	25.4	2	\$50.80	10	\$18.30
HCL01100	3/32" (0.0938")	1.25	31.75	2.25	\$57.15	10	\$17.80
HCL01113	7/64" (0.1094")	1.5	38.1	2.625	\$66.68	10	\$19.30
HCL01123	1/8" (0.1250")	1.625	41.28	2.75	\$69.85	10	\$17.70
HCL01132	9/64" (0.1406")	1.75	44.45	2.875	\$73.03	10	\$19.70
HCL01143	5/32" (0.1562")	2	50.8	3.125	\$79.38	10	\$21.90
HCL01154	11/64" (0.1719")	2.125	53.98	3.25	\$82.55	10	\$26.30
HCL01165	3/16" (0.1875")	2.313	58.75	3.5	88.9	10	\$26.80
HCL01176	13/64" (0.2031")	2.438	52	3.625	92.08	10	\$32.40
HCL01186	7/32" (0.2188")	2.5	61.93	3.75	95.25	10	\$35.90
HCL01195	15/64" (0.2344")	2.625	66.68	3.875	98.43	10	\$41.80
HCL01204	1/4"-E (0.2500")	2.75	69.85	4	101.6	10	\$43.00
HCL01212	17/64" (0.2656")	2.875	73.03	4.125	104.78	10	\$48.40
HCL01226	9/32" (0.2812")	2.938	74.63	4.25	107.95	10	\$54.20
HCL01230	19/64" (0.2969")	3.063	77.8	4.375	111.13	5	\$62.90
HCL01237	5/16" (0.3125")	3.188	80.98	4.5	114.3	5	\$67.10
HCL01245	21/64" (0.3281")	3.313	84.15	4.625	117.4	5	\$72.30
HCL01252	11/32" (0.3438")	3.438	87.33	4.75	120.65	5	\$82.90
HCL01260	23/64" (0.3594")	3.5	88.9	4.875	123.83	5	\$88.80
HCL01267	3/8" (0.3750")	3.625	92.08	5	127	5	\$98.70
HCL01275	25/64" (0.3906")	3.75	95.25	5.125	130.18	5	\$112.20
HCL01281	13/32" (0.4062")	3.875	98.43	5.25	133.35	5	\$114.80
HCL01284	27/64" (0.4219")	3.938	100.03	5.375	136.53	5	\$127.80
HCL01287	7/16" (0.4375")	4.063	103.2	5.5	139.7	5	\$132.90
HCL01290	29/64" (0.4531")	4.188	106.38	5.625	142.88	5	\$149.60
HCL01292	15/32" (0.4688")	4.313	109.55	5.75	146.05	5	\$158.40
HCL01295	31/64" (0.4844")	4.375	111.13	5.875	149.23	5	\$165.50
HCL01297	1/2" (0.5000")	4.5	114.3	6	152.4	5	\$169.70
HCL01300	33/64" (0.5156")	4.813	122.25	6.625	168.28	1	\$342.30
HCL01302	17/32" (0.5312")	4.813	122.25	6.625	168.28	1	\$349.10
HCL01308	9/16" (0.5625")	4.813	122.25	6.625	168.28	1	\$394.20
HCL01310	37/64" (0.5781")	4.813	122.25	6.625	168.28	1	\$407.80
HCL01313	19/32" (0.5938")	5.188	131.78	7.125	180.98	1	\$414.70
HCL01318	5/8" (0.6250")	5.188	131.78	7.125	180.98	1	\$453.10
HCL01323	21/32" (0.6562")	5.188	131	7.125	180.98	1	\$508.80
HCL01328	11/16" (0.6875")	5.625	142.88	7.625	193.68	1	\$545.00
Milimétricas							
HCL01050	1.00 mm (0.0394")	0.472	12	1.339	\$34.00	10	\$35.60
HCL01068	1.50 mm (0.0591")	0.709	18	1.575	\$40.00	10	\$34.70
HCL01087	2.00 mm (0.0787")	0.945	24	1.929	\$49.00	10	\$28.60
HCL01105	2.50 mm (0.0984")	1.181	30	2.244	\$57.00	10	\$28.60
HCL01120	3.00 mm (0.1181")	1.299	33	2.402	\$61.00	10	\$26.00
HCL01127	3.30 mm (0.1299")	1.496	36	2.638	\$67.00	10	\$27.80
HCL01130	3.50 mm (0.1378")	1.535	39	2.756	\$70.00	10	\$27.80
HCL01145	4.00 mm (0.1575")	1.693	43	2.953	\$75.00	10	\$32.10
HCL01147	20 (0.1610")	2.125	53.98	3.25	\$82.55	10	\$39.60
HCL01158	4.50 mm (0.1772")	1.85	47	3.15	80	10	\$33.30
HCL01172	5.00 mm (0.1969")	2.047	52	3.386	86	10	\$38.90
HCL01196	6.00 mm (0.2362")	2.244	57	3.661	93	10	\$42.90
HCL01207	6.50 mm (0.2559")	2.48	63	3.976	101	10	\$53.00
HCL01215	6.80 mm (0.2677")	2.717	69	4.291	109	10	\$66.10
HCL01218	7.00 mm (0.2756")	2.717	69	4.291	109	10	\$60.10
HCL01229	7.50 mm (0.2953")	2.717	69	4.291	109	5	\$67.60
HCL01238	8.00 mm (0.3150")	2.953	75	4.606	117	5	\$77.70
HCL01248	8.50 mm (0.3346")	2.953	75	4.606	117	5	\$116.80
HCL01257	9.00 mm (0.3543")	3.189	81	4.921	125	5	\$107.50
HCL01266	9.50 mm (0.3740")	3.189	81	4.921	125	5	\$126.60
HCL01276	10.00 mm (0.3937")	3.425	87	5.236	133	5	\$118.00
HCL01283	10.50 mm (0.4134")	3.425	87	5.236	133	5	\$130.10
HCL01286	11.00 mm (0.4331")	3.701	94	5.591	142	5	\$154.20
HCL01293	12.00 mm (0.4724")	3.976	101	5.945	151	5	\$180.70
HCL01306	14.00 mm (0.5512")	4.252	108	6.299	160	1	\$462.40

Brocas Fraccionales Zanco Reducido a 1/2" Uso General Acero Alta Velocidad

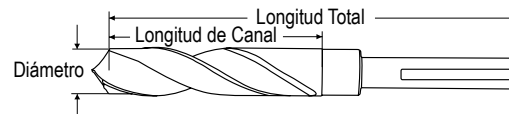


Características

ESPECIFICACIONES ANSI	A.A.V.
USO GENERAL	38°
ZANCO	118°
ACABADO ÓXIDO AL VAPOR	

Aplicaciones

ACERO AL CARBÓN
ACERO ALEADO
FUNDICIÓN



Clave	Descripción	Long. de Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HCL11164	17/32" (0.5312)	3-1/8	79.38	6	152.40	1	\$440.40
HCL11170	9/16" (0.5625)	3-1/8	79.38	6	152.40	1	\$514.80
HCL11180	5/8" (0.6250)	3-1/8	79.38	6	152.40	1	\$579.50
HCL11185	21/32" (0.6562)	3-1/8	79.38	6	152.40	1	\$521.30
HCL11190	11/16" (0.6875)	3-1/8	79.38	6	152.40	1	\$609.80
HCL11198	3/4" (0.7500)	3-1/8	79.38	6	152.40	1	\$708.20
HCL11205	13/16" (0.8125)	3	76.19	6	152.40	1	\$784.70
HCL11212	7/8" (0.8750)	3	76.19	6	152.40	1	\$883.00
HCL11226	1" (1.0000)	3	76.19	6	152.40	1	\$1,029.50
HCL11233	1-1/16" (1.0625)	3	76.19	6	152.40	1	\$1,500.50
HCL11241	1-1/8" (1.1250)	3	76.19	6	152.40	1	\$1,569.30
HCL11248	1-3/16" (1.1875)	3	76.19	6	152.40	1	\$1,695.00
HCL11261	1-5/16"	3	76.19	6	152.40	1	\$3,421.30
HCL11264	1-3/8"	3	76.19	6	152.40	1	\$3,506.50

Brocas COTTER PIN-TOP

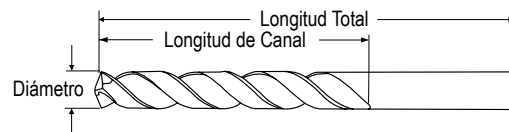


Características

ESPECIFICACIONES ANSI	HSS PUNTA RECUBRIMIENTO TIN
TRABAJO PESADO	BRILLANTE
ZANCO	118°
	30°

Aplicaciones

NIKEL	Acero Inoxidable
Acero al Carbon	



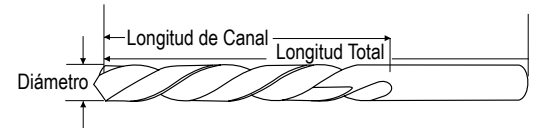
Clave	Descripción	Long. de Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HCL80004	1/8"	1.417	36	2.559	65	10	\$23.50
HCL80006	5/32"	1.693	43	2.953	75	10	\$29.10
HCL80008	3/16"	2.047	52	3.386	86	10	\$35.50
HCL80010	7/32"	2.244	57	3.361	93	10	\$47.70
HCL80012	1/4"	2.480	63	3.976	101	10	\$57.00
HCL80016	5/16"	2.953	75	4.606	117	5	\$88.90
HCL80020	3/8"	3.425	87	5.236	133	5	\$130.90
HCL80024	7/16"	3.701	94	5.591	142	1	\$176.30
HCL80032	1/2"	3.976	101	5.945	151	1	\$223.80

Juegos de Brocas



Clave	Descripción	Empaque	Precio Unitario
HCL00888	Acabado Óxido al Carbón 29 Piezas de 1-16" a 1/2" x 1/64	1	\$2,086.20
HCL00943	25 piezas de 1mm. a 13mm. por 5mm.	1	\$2,479.40
HCL01330	Acabado Brillante 115 piezas Brocas Fracc. de 1/16 a 1/2, Alfabéticas de la A a la Z, Numéricas del No. 1 al No. 60	1	\$14,193.90
HCL70365	Acabado Óxido de paja 29 Piezas de 1/16" a 1/2 x 1/64"	1	\$4,026.50

Brocas Zanco Recto Largas



Características

ESPECIFICACIONES ANSI	A.A.V.
DIN 340	ACABADO ÓXIDO AL VAPOR
USO GENERAL	38°
ZANCO	118°

Aplicaciones

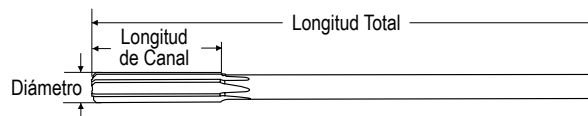
ACERO AL CARBÓN
ACERO ALEADO
FUNDICIÓN

Clave	Descripción	Long. de Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HCL08613	1/16" (0.0625)	1-3/4	44.45	3	76.20	10	\$82.90
HCL08665	1/8" (0.1250)	2-3/4	69.85	5-1/8	130.18	10	\$90.30
HCL08674	9/64" (0.1406)	3	76.20	5-3/8	136.53	10	\$126.50
HCL08685	5/32" (0.1562)	3	76.20	5-3/8	136.53	10	\$109.50
HCL08707	3/16" (0.1875)	3-3/8	85.73	5-3/4	146.05	10	\$109.50
HCL08728	7/32" (0.2188)	3.625	92.08	6	152.40	10	\$155.80
HCL08746	1/4" - E (0.2500)	3-3/4	95.25	6-1/8	155.58	10	\$151.50
HCL08752	17/64" (0.2656)	3-7/8	98.43	6-1/4	158.75	10	\$183.60
HCL08777	5/16" (0.3125)	4	101.60	6-3/8	161.93	5	\$204.70
HCL08807	3/8" (0.3750)	4-1/4	107.95	6-3/4	171.45	1	\$287.80
HCL08837	1/2" (0.5000)	4-3/4	120.65	7-3/4	196.85	1	\$432.20
HCL08872	23/32" (0.7188)	5-5/8	142.88	9-1/2	241.00	1	\$897.40
HCL08876	3/4" (0.7500)	5-7/8	149.23	9-3/4	247.65	1	\$982.90
HCL08877	49/64" (0.7656)	6	152.40	9-7/8	250.83	1	\$1,021.70
HCL08883	13/16" (0.8125)	6-1/8	155.58	10	254.00	1	\$1,166.30
HCL08890	7/8" (0.8750)	6-1/8	155.58	10	254.00	1	\$1,115.00
HCL08897	15/16" (0.9375)	6-1/8	155.58	10-3/4	273.05	1	\$1,410.10
HCL08904	1" (1.0000)	6-3/8	161.93	11	279.40	1	\$1,749.80

Rimas para Máquina Zanco Recto Canales Rectos Acero Alta Velocidad

Características

ESPECIFICACIONES ANSI	A.A.V.	BARRENOS PASADOS
USO GENERAL	BRILLANTE	
ZANCO	FLAUTA RECTA	

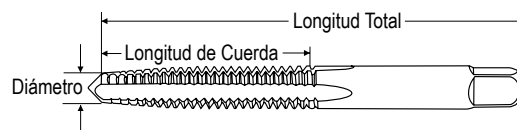


Aplicaciones

ACERO GRADO HERRAMIENTA	ALUMINIO	INOXIDABLE
FUNDICIÓN	PLÁSTICO	

Clave	Descripción	Long. de Canal		Long. Total		No. de Canales	Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm			
HCL25060	1/16" (0.0620)	1/2	12.70	2-1/2	63.50	4	1	\$392.20
HCL25140	3/32" (0.0938)	3/4	19.05	3	76.20	4	1	\$503.50
HCL25438	7/32" (0.2188)	1-1/4	31.75	5	127.00	6	1	\$745.20
HCL25513	1/4" (0.2500)	1-1/2	38.10	6	152.40	6	1	\$725.60
HCL25608	9/32" (0.2812)	1-1/2	38.10	6	152.40	6	1	\$758.10
HCL25947	7/16" (0.4375)	1-3/4	44.45	7	177.80	6	1	\$930.40
HCL26083	1/2" (0.5000)	2	50.80	8	203.20	6	1	\$1,032.00
HCL26150	17/32" (0.5312)	2	50.80	203.20	8	8	1	\$1,101.10
HCL26217	9/16" (0.5625)	2	50.80	8	203.20	8	1	\$1,143.10

Machuelo Uso General



Características

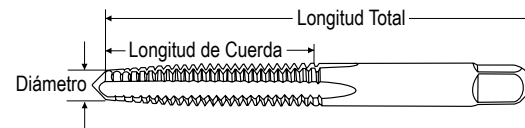
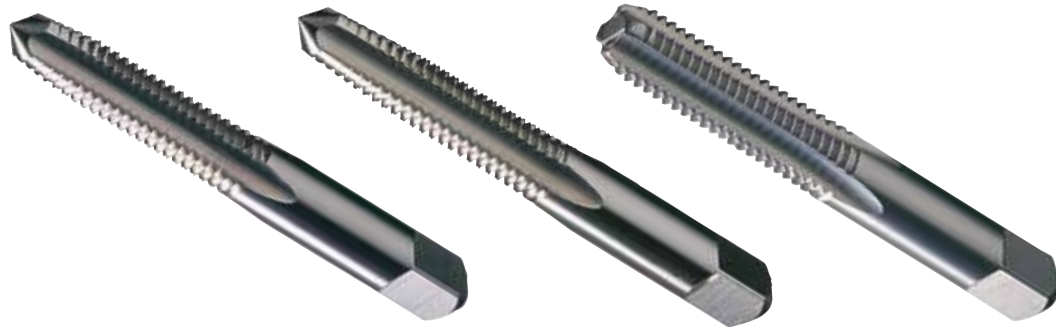
ESPECIFICACIONES	A.A.V.
USO GENERAL	BRILLANTE
BARRENOS CIEGOS	CÓNICO 7-10
BARRENOS PASADOS	SEMI-CÓNICO 3-5
ROSCA RECTIFICADA	RECTO 1-1/2 - 2

Aplicaciones

ACERO ALEADO
ACERO AL CARBÓN
INOXIDABLE
ALUMINIO

Clave	Hilos por pulgada	Ajuste	Long. de Cuerda		Long. Total		Canales	Empaque	Precio Unitario
			Pulg.	mm	Pulg.	mm			
HCL54189	N° 5-40 S	H2	5/8	15.88	1-15/16	49.21	3	10	\$105.10
HCL54224	N° 6-32 S	H3	11/16	17.46	2	50.80	3	10	\$87.10
HCL54278	N° 8-32 S	H3	3/4	19.05	2-1/8	53.98	4	10	\$80.50
HCL54330	N° 10-24 S	H3	7/8	22.23	2-3/8	60.33	4	10	\$82.70
HCL54357	N° 10-32 S	H3	7/8	22.23	2-3/8	60.33	4	10	\$82.70
HCL54390	N° 12-28 S	H3	15/16	23.81	2-3/8	60.33	4	10	\$87.40
HCL205323	5/32-32 S	H3	3/4	19.05	2-1/8	53.98	4	10	\$106.70
HCL206243	3/16-24 S	H3	7/8	22.22	2-3/8	60.33	4	10	\$128.20
HCL207243	7/32-24 S	H3	15/16	23.81	2-3/8	60.33	4	10	\$104.40
HCL54454	1/4 -20 S	H3	1	25.40	2-1/2	63.50	4	10	\$88.50
HCL54505	5/16-18 S	H3	1-1/8	28.58	2-23/32	69.06	4	5	\$109.30
HCL54583	3/8 -16 S	H3	1.250	31.75	2.938	74.61	4	5	\$123.50
HCL54653	7/16-14 S	H3	1.438	36.51	3.156	80.17	4	5	\$210.20
HCL54727	1/2 -13 S	H3	1.656	42.06	3.375	85.73	4	5	\$223.00
HCL54780	5/8 -11 S	H3	1.813	46.04	3.813	96.84	4	3	\$446.30
HCL54814	11/16-11 S	H3	1.813	46.04	4.031	102.39	4	3	\$555.20
HCL54839	3/4 -10 S	H3	2.000	50.80	4.250	107.95	4	3	\$625.50
HCL54885	7/8 - 9 S	H4	2.219	56.36	4.688	119.06	4	3	\$871.80
HCL54924	1 - 8 S	H4	2.500	63.50	5.125	130.18	4	1	\$1,162.20
HCL54929	1 -12 S	H4	2.500	63.50	5.125	130.18	4	1	\$1,162.20
Milimétricos									
HCL54165	3 x 0.50 mm S	D3	5/8	15.88	1-15/16	49.21	3	10	\$97.80
HCL54247	4 x 0.70 mm S	D4	3/4	19.05	2-1/8	53.98	4	10	\$110.30
HCL54304	4.5 x 0.75 mm S	D4	7/8	22.23	2-3/8	60.33	4	10	\$109.30
HCL54375	5 x 0.80 mm S	D4	7/8	22.23	2-3/8	60.33	4	10	\$109.30
HCL54414	6 x 1.00 mm S	D5	1	25.4	2-1/2	63.5	4	10	\$119.90
HCL54547	8 x 1.25 mm S	D5	1-1/8	28.58	2-23/32	69.06	4	5	\$133.30
HCL54625	10 x 1.50 mm S	D6	1-1/4	31.75	2-15/16	74.61	4	5	\$247.00
HCL54690	12 x 1.75 mm S	D6	1-21/32	42.07	3-3/8	85.73	4	5	\$323.40
HCL54802	16 x 2.00 mm S	D7	1-13/16	46.06	3-13/16	96.84	4	3	\$467.10
HCL54865	20 x 2.50 mm S	D7	2	50.8	4-15/32	113.51	4	3	\$833.80
HCL54992	30 x 3.50 mm R	D9	2-9/16	65.09	5-7/16	138.11	4	3	\$2,340.20

Juego de Machuelos Uso General

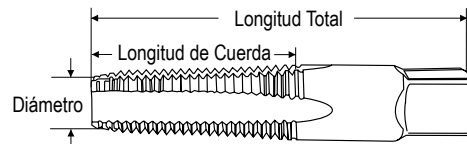


Clave	Hilos por pulgada	Ajuste	Long. de Cuerda		Long. Total		Canales	Empaque	Precio Unitario
			Pulg.	mm	Pulg.	mm			
HCL304402	1/8 - 40	H2	5/8	15.88	1-15/26	49.21	3	1	\$403.40
HCL305323	5/32 - 32	H3	3/4	19.05	2-1/8	53.98	4	1	\$320.20
HCL306243	3/16 - 24	H3	7/8	22.22	2-3/8	60.33	4	1	\$384.70
HCL307243	7/32 - 24	H3	15/16	23.81	2-3/8	60.33	4	1	\$313.20
HCL54460	1/4 - 20	H3	1	25.40	2-1/2	63.50	4	1	\$265.60
HCL54511	5/16 - 18	H3	1-1/8	28.58	2-23/32	69.06	4	1	\$327.50
HCL54587	3/8 - 16	H3	1.250	31.75	2.938	74.61	4	1	\$370.50
HCL54656	7/16 - 14	H3	1.438	36.51	3.156	80.17	4	1	\$630.60
HCL54731	1/2 - 13	H3	1.656	42.06	3.375	85.73	4	1	\$669.20
HCL54762	9/16 - 12	H3	1.656	42.07	3.594	91.28	4	1	\$1,117.40
HCL54782	5/8 - 11	H3	1.813	46.04	3.813	96.84	4	1	\$1,338.50
HCL54790	5/8 - 18	H3	1.813	46.04	3.813	96.84	4	1	\$1,338.50
HCL54816	11/16 - 11	H3	1.813	46.04	4.031	102.39	4	1	\$1,665.70
HCL54841	3/4 - 10	H3	2.000	50.80	4.250	107.95	4	1	\$1,876.60
HCL54887	7/8 - 9	H4	2.219	56.36	4.688	119.06	4	1	\$2,615.10
HCL54926	1 - 8	H4	2.500	63.50	5.125	130.18	4	1	\$3,486.90
HCL54931	1 - 12	H4	2.500	63.50	5.125	130.18	4	1	\$3,486.90
HCL336074	1-1/8 - 7	H4	2.563	65.09	5.438	138.11	4	1	\$5,663.30
HCL340074	1-1/4 - 7	H4	2.563	65.09	5.750	146.0	4	1	\$7,384.30
HCL348064	1-1/2 - 6	H4	3.000	76.20	6.375	161.93	4	1	\$10,715.60
Milimétricos									
HCL3040704M	4 x 0.7 mm	D4	3/4	19.05	2-1/8	53.98	4	1	\$331.00
HCL3050804M	5 x 0.8 mm	D4	7/8	22.23	2-3/8	60.33	4	1	\$331.00
HCL3061005M	6 x 1.00 mm	D5	1	25.40	2-1/2	63.5	4	1	\$352.30
HCL3081255M	8 x 1.25 mm	D5	1-1/8	28.58	2-23/32	69.06	4	1	\$399.70
HCL3101255M	10 x 1.25 mm	D5	1-1/4	31.75	2-15/16	74.61	4	1	\$707.50
HCL3101506M	10 x 1.50 mm	D6	1-1/4	31.75	2-15/16	74.61	4	1	\$846.00
HCL3121756M	12 x 1.75 mm	D6	1-21/32	42.07	3-3/8	85.73	4	1	\$1,054.60
HCL3142007M	14 x 2.00 mm	D7	1-21/32	42.07	3-19/32	91.28	4	1	\$1,230.70
HCL3162007M	16 x 2.00 mm	D7	1-13/16	46.06	3-13/16	96.84	4	1	\$1,400.80
HCL3202507M	20 x 2.50 mm	D7	2	50.8	4-15/32	113.51	4	1	\$2,454.40

Machuelo NPT

Características

USCTI 311	A.A.V.
USO GENERAL	BRILLANTE
NPT	3/4" / 12"
NPTF DRYSEAL	PIPE 3-1/2"
ROSCA RECTIFICADA	



Aplicaciones

ACERO ALEADO	ACERO AL CARBÓN
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Clave	Descripción	Hilos por pulgada	Número de Canales	Diám. de Zanco		Long. Cuerda		Long. Cuerda		Empaque	Precio Unitario
				Pulg.	mm	Pulg.	mm	Pulg.	mm		
HCL64036	1/16"	27	4	.3125	7.94	11/16	17.46	2-1/8	53.98	10	\$207.20
HCL64038	1/8"	27	4	.4375	11.11	3/4	19.05	2-1/8	53.98	5	\$228.60
HCL64039	1/4"	18	4	.5625	14.29	1-1/16	26.99	2-7/16	61.91	3	\$284.90
HCL64040	3/8"	18	4	.7000	17.78	1-1/16	26.99	2-9/16	65.09	3	\$383.30
HCL64041	1/2"	14	4	.6875	17.46	1-3/8	34.93	3-1/8	79.38	1	\$589.00
HCL64042	3/4"	14	5	.9063	23.02	1-3/8	34.93	3-1/4	82.55	1	\$1,100.20
HCL64043	1"	11-1/2	5	1.1250	28.58	1-3/4	44.45	3-1/4	95.25	1	\$1,556.00
HCL64045	1-1/2"	11-1/2	7	1.5000	38.10	1-3/4	44.45	1-1/4	107.95	1	\$3,291.80

Juegos de Extractores de Tornillos



Clave	Descripción	Medida de Tornillo	Empaque	Precio Unitario
HCL00906	N°15	1 al 5	1	\$511.30
HCL00907	N°15 A	1 al 6	1	\$580.90

Buril Cuadrado Mo-Max Acero Alta Velocidad



Características

ESPECIFICACIONES ANSI	A.A.V.
USO GENERAL	BISEL 10°

Aplicaciones

ACERO ALEADO	HIERRO FUNDIDO
ACERO GRABO HERRAMIENTA	

Clave	Descripción	Long. Total		Empaque	Precio Unitario
		Pulg.	mm		
HCL44509	3/16"	2-1/2	63.50	10	\$90.80
HCL44513	1/4"	2-1/2	63.50	10	\$83.20
HCL44514	5/16"	2-1/2	53.50	10	\$106.80
HCL44516	3/8"	3	76.20	5	\$141.80
HCL44518	7/16"	3-1/2	88.90	5	\$207.50
HCL44520	1/2"	4	101.60	5	\$297.70
HCL44522	5/8"	4-1/2	114.30	2	\$441.10
HCL44525	3/4"	5	127.00	2	\$696.20
HCL44527	7/8"	6	152.40	2	\$1,144.00
HCL44528	1"	7	177.80	1	\$1,672.50
HCL44530	1-1/4"	9	228.60	1	\$2,515.60

Buril Cuadrado Mo-Max Acero Alta Velocidad al Cobalto



Características

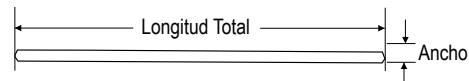
ESPECIFICACIONES ANSI	M42
USO GENERAL	BISEL 10°

Aplicaciones

ACERO ALEADO	HIERRO FUNDIDO
ACERO GRABO HERRAMIENTA	ACERO INOXIDABLE

Clave	Descripción	Long. Total		Empaque	Precio Unitario
		Pulg.	mm		
HCL44536	1/8"	2-1/2	63.50	10	\$122.50
HCL44540	3/16"	2-1/2	63.50	10	\$136.90
HCL44544	1/4"	2-1/2	63.50	10	\$153.00
HCL44545	5/16"	2-1/2	53.50	10	\$178.90
HCL44547	3/8"	3	76.20	5	\$216.20
HCL44549	7/16"	3-1/2	88.90	5	\$377.70
HCL44551	1/2"	4	101.60	5	\$536.60
HCL44553	5/8"	4-1/2	114.30	2	\$833.60
HCL44556	3/4"	5	127.00	2	\$1,123.80
HCL44558	7/8"	6	152.40	2	\$2,099.10
HCL44559	1"	7	177.80	1	\$3,124.50

Buriles Redondos Tipo Gorton Acero Alta Velocidad



Características

ESPECIFICACIONES ANSI	A.A.V.
USO GENERAL	

Clave	Descripción	Pulg.	Long. Total		Empaque	Precio Unitario
			mm			
HCL80062	1/16" x 4"	4	101.60		10	\$67.90
HCL80125	1/8" x 4"	4	101.60		10	\$75.50
HCL80187	3/16" x 4"	4	101.60		10	\$101.60
HCL80250	1/4" x 4"	4	101.60		10	\$111.80
HCL80375	3/8" x 4"	4	101.60		5	\$190.10
HCL80500	1/2" x 4"	4	101.60		5	\$339.60

Aplicaciones

ACERO ALEADO	HIERRO FUNDIDO
ACERO GRADO HERRAMIENTA	ALEACIÓN DE COBALTO

Cuchillas para Trozar Mo-Max Acero Alta Velocidad y Acero Alta Velocidad al Cobalto

HSS Cobalto

Características

ESPECIFICACIONES ANSI	A.A.V.	ACERO ALEADO	HIERRO FUNDIDO
USO GENERAL	BISEL	ACERO GRADO HERRAMIENTA	

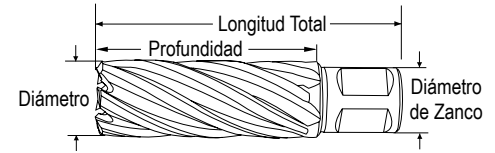


Aplicaciones

ESPECIFICACIONES ANSI	M42 COBALT SUBSTRATE	ACERO ALEADO	HIERRO FUNDIDO
USO GENERAL	BISEL	ACERO GRADO HERRAMIENTA	ACERO INOXIDABLE

Clave	Descripción	Altura Pulgs.	mm	Long. Total		Empaque	Precio Unitario
				Pulg.	mm		
HCL44746	AAV 1/8" x 7/8"	7/8	22.23	6	152.40	1	\$513.60
HCL44745	COB 1/8" x 3/4"	3/4	19.05	5	127.00	1	\$511.10
HCL44747	COB 1/8" x 7/8"	7/8	22.23	6	152.40	1	\$616.40

Cortadores Anulares Acero Alta Velocidad



Características

ESPECIFICACIONES ANSI **A.A.V.**

USO GENERAL **BRILLANTE**

Aplicaciones

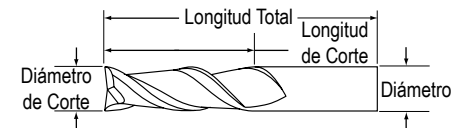
ALEACIÓN DE TITANIO **ACERO INOXIDABLE**

ALEACIÓN DE NIKEL

ALEACIÓN DE COBALTO

Clave	Descripción	Diám. de Zanco		Empaque	Precio Unitario
		Pulg.	mm		
HCL84001	1/2 x 1"	3/4	19.05	1	\$355.50
HCL84003	9/16 x 1"	3/4	19.05	1	\$407.30
HCL84005	5/8 x 1"	3/4	19.05	1	\$444.40
HCL84007	11/16 x 1"	3/4	19.05	1	\$474.00
HCL84009	3/4 x 1"	3/4	19.05	1	\$481.40
HCL84011	13/16 x 1"	3/4	19.05	1	\$548.00
HCL84013	7/8 x 1"	3/4	19.05	1	\$599.90
HCL84017	1 x 1"	3/4	19.05	1	\$703.60
HCL84021	1-1/8 x 1"	3/4	19.05	1	\$755.40
HCL84002	1/2 x 2"	3/4	19.05	1	\$474.00
HCL84004	9/16 x 2"	3/4	19.05	1	\$533.20
HCL84006	5/8 x 2"	3/4	19.05	1	\$555.40
HCL84008	11/16 x 2"	3/4	19.05	1	\$592.50
HCL84010	3/4 x 2"	3/4	19.05	1	\$592.50
HCL84012	13/16 x 2"	3/4	19.05	1	\$548.00
HCL84014	7/8 x 2"	3/4	19.05	1	\$777.60
HCL84016	15/16 x 2"	3/4	19.05	1	\$814.70
HCL84018	1 x 2"	3/4	19.05	1	\$844.30
HCL84020	1-1/16 x 2"	3/4	19.05	1	\$888.70
HCL84022	1-1/8 x 2"	3/4	19.05	1	\$992.40
HCL84024	1-3/16 x 2"	3/4	19.05	1	\$1,036.80
HCL84026	1-1/4 x 2"	3/4	19.05	1	\$1,051.60
HCL84027	1-5/16 x 2"	3/4	19.05	1	\$1,162.70
HCL84028	1-3/8 x 2"	3/4	19.05	1	\$1,222.00
HCL84030	1-1/2 x 2"	3/4	19.05	1	\$1,466.40
HCL84031	1-9/16 x 2"	3/4	19.05	1	\$1,510.80
HCL84033	1-5/8 x 2"	3/4	19.05	1	\$1,710.80
HCL84035	1-3/4 x 2"	3/4	19.05	1	\$1,903.30
HCL84040	2 x 2"	3/4	19.05	1	\$2,281.00
HCL84067	2-5/16" x 2"	3/4	19.05	1	\$4,853.70

Cortadores de Carburo Sólido para Aluminio 2 Canales



Características

Carburo Sólido **Brillante**

ZrN

45° Recto 2cc

Aplicaciones

No Ferrosos

Clave	Diámetro de Zanco		Longitud de Corte		Longitud Total	Empaque	Precio Unitario
	Pulg.	Pulg.	Pulg.	Pulg.			
HCL60478	1/8	3/8	1-1/2	1	\$262.00		
HCL60480	3/16	9/16	2	1	\$562.00		
HCL60482	1/4	3/4	2-1/2	1	\$765.00		
HCL60485	5/16	13/16	2-1/2	1	\$1,051.00		
HCL60493	7/16	1	2-1/2	1	\$1,899.00		
HCL60496	1/2	1-1/4	3	1	\$2,105.00		
HCL60478N	1/8	3/8	1-1/2	1	\$356.00		
HCL60480N	3/16	9/16	2	1	\$764.00		
HCL60482N	1/4	3/4	2-1/2	1	\$1,041.00		
HCL60485N	5/16	13/16	2-1/2	1	\$1,430.00		
HCL60493N	7/16	1	2-1/2	1	\$2,583.00		
HCL60496N	1/2	1-1/4	3	1	\$2,863.00		
HCL60491	3/8	2 1/2	6	1	\$2,764.00		
HCL60491N	3/8	2 1/2	6	1	\$3,869.00		

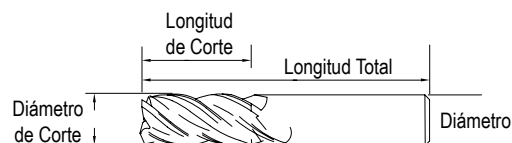
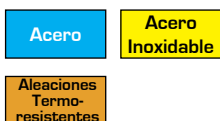
Cortadores de Carburo Sólido High Performance 4 Canales



Características



Aplicaciones



Clave	Descripción	Diámetro de Zanco Pulgs.	Longitud de Corte Pulgs.	Longitud Total Pulgs.	Empaque	Precio Unitario
HCL60005CR	1/8	1/8	1/2	1 1/2	1	\$910.00
HCL60009CR	3/16	3/16	7/16	2	1	\$956.00
HCL60015CR	1/4	1/4	3/4	2 1/2	1	\$1,185.00
HCL60023CR	5/16	5/16	13/16	2 1/2	1	\$1,303.00
HCL60029CR	3/8	3/8	7/8	2 1/2	1	\$1,624.00
HCL60037CR	7/16	7/16	1	3	1	\$2,450.00
HCL60043CR	1/2	1/2	1	3	1	\$2,716.00

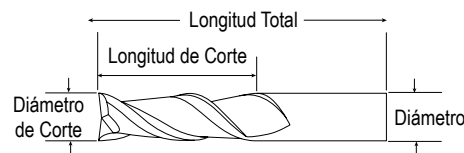
Cortadores Verticales de Carburo Sólido 2 Canales



Características

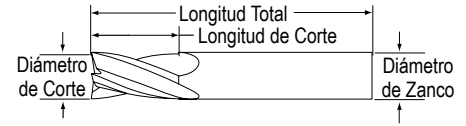


Aplicaciones



Clave	Diámetro de Corte Pulgs.	Diámetro de Zanco Pulgs.	Longitud de Corte Pulgs.	Longitud Total Pulgs.	Empaque	Precio Unitario
HCL141008	1/8	1/8	1/2	1 1/2	1	\$223.00
HCL141010	5/32	3/16	9/16	2	1	\$339.00
HCL141012	3/16	3/16	5/8	2	1	\$339.00
HCL141014	7/32	1/4	5/8	2 1/2	1	\$423.00
HCL141016	1/4	1/4	3/4	2 1/2	1	\$423.00
HCL141018	9/32	5/16	3/4	2 1/2	1	\$633.00
HCL141020	5/16	5/16	7/8	2 1/2	1	\$633.00
HCL141024	3/8	3/8	7/8	2 1/2	1	\$713.00
HCL141028	7/16	7/16	1	2 1/2	1	\$873.00
HCL141032	1/2	1/2	1	3	1	\$1,065.00
HCL141132	1/2	1/2	1	3	1	\$1,297.00

Cortador Vertical de Carburo Sólido Punta Recta - 4F



Características

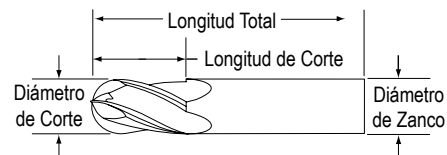


Aplicaciones

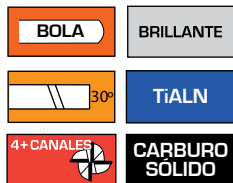


Clave	Diámetro de Zanco Pulgs.	Longitud de Corte Pulgs.	Longitud Total Pulgs.	Empaque	Precio Unitario
HCL141704	1/8	1/4	1-1/2	1	\$223.00
HCL141706	1/8	3/8	1-1/2	1	\$223.00
HCL141708	1/8	1/2	1-1/2	1	\$223.00
HCL141710	3/16	9/16	2	1	\$339.00
HCL141712	3/16	5/8	2	1	\$339.00
HCL141714	1/4	5/8	2-1/2	1	\$423.00
HCL141716	1/4	3/4	2-1/2	1	\$423.00
HCL141718	5/16	3/4	2-1/2	1	\$633.00
HCL141720	5/16	13/16	2-1/2	1	\$633.00
HCL141722	3/8	1	2-1/2	1	\$713.00
HCL141724	3/8	7/8	2-1/2	1	\$713.00
HCL141726	7/16	1	2-1/2	1	\$873.00
HCL141728	7/16	1	2-1/2	1	\$873.00
HCL141730	1/2	1	3	1	\$1,065.00
HCL141732	1/2	1	3	1	\$1,065.00
HCL141736	9/16	1 1/4	3 1/2	1	\$1,528.00
HCL141740	5/8	1 1/4	4	1	\$2,032.00
HCL141748	3/4	1 1/2	4	1	\$2,611.00
HCL141756	7/8	1 1/2	4	1	\$2,892.00
HCL141764	1	1 1/2	4	1	\$4,349.00
HCL141804	1/8	1/4	1-1/2	1	\$281.00
HCL141806	1/8	3/8	1-1/2	1	\$281.00
HCL141808	1/8	1/2	1-1/2	1	\$281.00
HCL141810	3/16	9/16	2	1	\$423.00
HCL141812	3/16	5/8	2	1	\$423.00
HCL141814	1/4	5/8	2-1/2	1	\$570.00
HCL141816	1/4	3/4	2-1/2	1	\$570.00
HCL141818	5/16	3/4	2-1/2	1	\$842.00
HCL141820	5/16	13/16	2-1/2	1	\$842.00
HCL141822	3/8	1	2-1/2	1	\$882.00
HCL141824	3/8	7/8	2-1/2	1	\$882.00
HCL141826	7/16	1	2-1/2	1	\$1,101.00
HCL141828	7/16	1	2-1/2	1	\$1,159.00
HCL141830	1/2	1	3	1	\$1,297.00
HCL141832	1/2	1	3	1	\$1,297.00
HCL141840	5/8	1 1/4	3 1/2	1	\$2,469.00
HCL141848	3/4	1 1/2	4	1	\$3,048.00
HCL141864	1	1 1/2	4	1	\$4,987.00
HCL141932	1/2	2	4	1	\$1,408.00
HCL141948	3/4	2 1/4	5	1	\$4,149.00
HCL142032	1/2	2	4	1	\$1,693.00
HCL142040	5/8	2 1/4	5	1	\$3,298.00
HCL141936	1/2	3	6	1	\$2,629.00
HCL141942	5/8	3	6	1	\$4,815.00
HCL141950	3/4	3	6	1	\$8,087.00
HCL142036	1/2	3	6	1	\$3,286.00
HCL142050	3/4	3	6	1	\$10,109.00
Milimétricos					
HCL161020	3	6	38	1	\$223.00
HCL161030	3	12	50	1	\$223.00
HCL161040	4	12	50	1	\$303.00
HCL161050	5	16	50	1	\$321.00
HCL161060	6	18	63	1	\$410.00
HCL161080	8	20	63	1	\$535.00
HCL161100	10	22	70	1	\$749.00
HCL161120	12	25	75	1	\$931.00
HCL161140	14	25	75	1	\$1,528.00
HCL161160	16	32	88	1	\$2,032.00
HCL161200	20	38	100	1	\$2,785.00
HCL165040	4	12	50	1	\$365.00
HCL165050	5	16	50	1	\$388.00
HCL165060	6	18	63	1	\$521.00
HCL165080	8	20	63	1	\$704.00
HCL165100	10	22	70	1	\$914.00
HCL165120	12	25	75	1	\$1,159.00
HCL165160	16	32	88	1	\$2,402.00

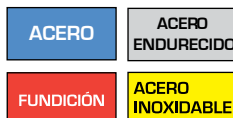
Cortadores Verticales de Carburo Sólido Punta Redonda 4 F



Características

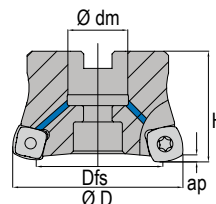


Aplicaciones



Clave	Descripción	Diámetro de Zanco	Longitud de Corte	Longitud Total	Empaque	Precio Unitario
Brillante						
HCL142108	1/8	1/8	1/2	1 1/2	1	\$276.00
HCL142112	3/16	3/16	5/8	2	1	\$405.00
HCL142116	1/4	1/4	3/4	2-1/2	1	\$508.00
HCL142120	5/16	5/16	13/16	2-1/2	1	\$686.00
HCL142124	3/8	3/8	1/4	4	1	\$1,029.00
HCL142132	1/2	1/2	1	3	1	\$1,332.00
HCL142140	5/8	5/8	1-1/4	3-1/2	1	\$2,549.00
HCL142148	3/4	3/4	1-1/2	4	1	\$3,119.00
HCL142164	1	1	1-1/2	4	1	\$5,365.00
TiAlN						
HCL142216	1/4	1/4	3/4	2-1/2	1	\$669.00
HCL142224	3/8	3/8	1/4	4	1	\$1,269.00
HCL142232	1/2	1/2	1	3	1	\$1,560.00

Coronas para Fresado de Carburo Sólido



Clave	Diámetro Ø	Número de Insertos Z	Diámetro de Montaje dm	Altura H	Máx. Profundidad de Corte ap	Diam. de Corte Real Dfs	Empaque	Precio Unitario
HCL998050	2	4	0.750	1.580	0.078	1.280	1	\$13,830.00
HCL998052	2.5	5	0.750	1.580	0.078	1.780	1	\$16,001.00

Insertos High Feed Carburo Sólido

Aplicaciones

HCL997102



Hierro Fundido

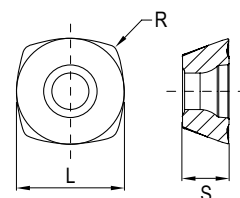
HCL997104



Hierro Fundido

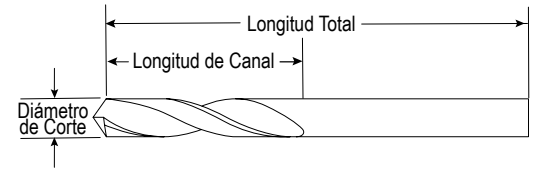
Acero Endurecido

Aleaciones Termo-resistentes



Clave	L	S	R	Empaque	Precio Unitario
HCL997102	0.500	0.219	0.047	1	\$515.00
HCL997104	0.500	0.219	0.047	1	\$515.00

Brocas de Carburo Sólido



Características

BRILLANTE

CARBURO SÓLIDO



Aplicaciones

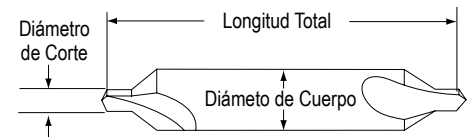
ACERO

FUNDICIÓN

MATERIALES NO FERROSOS

Clave	Diámetro de Corte	Long. de Canal	Longitud Total	Empaque	Precio Unitario
HCL111002	1/32	5/16	1-1/4	1	\$259.00
HCL111004	1/16	3/4	1-1/2	1	\$305.00
HCL111006	3/32	1	2	1	\$336.00
HCL111008	1/8	1-1/4	2-1/4	1	\$336.00
HCL111010	5/32	1-3/8	2-1/2	1	\$336.00
HCL111012	3/16	1-5/8	2-3/4	1	\$403.00
HCL111013	13/64	1-3/4	3	1	\$450.00
HCL111014	7/32	1-3/4	3	1	\$509.00
HCL111016	1/4-E	2	3-1/4	1	\$577.00
HCL111020	5/16	2-3/8	4	1	\$777.00
HCL111024	3/8	2-3/4	4-1/4	1	\$1,057.00
HCL111028	7/16	2-7/8	4-1/2	1	\$1,617.00
HCL111032	1/2	3	4-3/4	1	\$2,215.00
HCL111040	5/8	4	6	1	\$4,411.00
Milimétricas					
HCL114030	3.00	1-1/4	2-1/4	1	\$352.00
HCL114040	4.00	1-3/8	2-1/2	1	\$446.00
HCL114050	5.00	1-3/4	3	1	\$539.00
HCL114055	5.50	1-3/4	3	1	\$641.00
HCL114060	6.00	2	3-1/4	1	\$828.00
HCL114065	6.50	2	3-1/4	1	\$828.00
HCL114070	7.00	2-1/8	3-1/2	1	\$912.00
HCL114080	8.00	2-3/8	3-3/4	1	\$929.00
HCL114085	8.50	2-1/2	4	1	\$1,376.00
HCL114100	10.00	2-7/8	4-1/2	1	\$1,719.00
HCL114105	10.50	2-7/8	4-1/2	1	\$1,952.00
HCL114110	11.00	2-7/8	4-1/2	1	\$2,020.00
HCL114120	12.00	3	4-3/4	1	\$2,423.00

Brocas de Carburo Sólido para Centros



Características

BRILLANTE

CARBURO SÓLIDO



Aplicaciones

ACERO

MATERIALES NO FERROSOS

FUNDICIÓN

Clave	Número	Diám. de Cuerpo	Longitud Total	Empaque	Precio Unitario
HCL121002	2	3/16	2	1	\$548.00
HCL121003	3	1/4	2	1	\$607.00
HCL121004	4	5/16	2-1/8	1	\$785.00
HCL121005	5	7/16	2-3/4	1	\$1,150.00
HCL121006	6	1/2	3	1	\$1,541.00



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