

RL
MATERIALES PARA
CONSTRUCCION



CLEVELAND



DICIEMBRE 2025

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APLICACIONES

Acero



Acero Inoxidable



Hierro Fundido



Aleaciones Termoresistentes

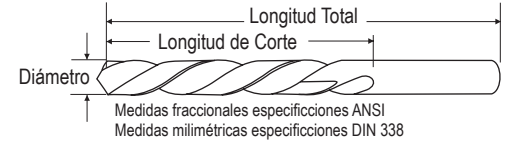


No Ferrosos

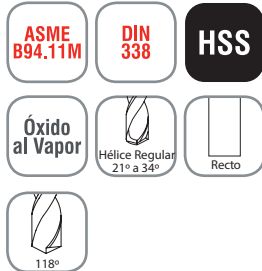


Acero Endurecido

BROCAS ZANCO RECTO



Características



Aplicaciones



Especificaciones

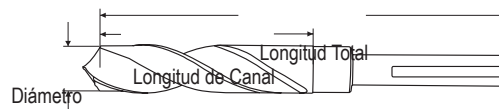
Diseñadas para dar un alto rendimiento en una gran variedad de materiales, equipos y condiciones de trabajo. También pueden ser usadas eficientemente en usos específicos adecuando ángulos de punta y velocidades de corte.

Tienen un filo de 118° para materiales como metal, plástico y madera, si el material a taladrar es blando puede afilar la broca con un ángulo de punta de 90°, si el material a taladrar es duro se puede afilar la broca con un ángulo de 135°. Cuentan con un tratamiento térmico superficial que incrementa la resistencia a la abrasión, reduce la adherencia y facilita el desalajo de la rebaba.

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	\$25.60
HCL01085	5/64" (0.0781")	1	25.4	2	50.80	10	\$26.70
HCL01100	3/32" (0.0938")	1.25	31.75	2.25	57.15	10	\$26.60
HCL01113	7/64" (0.1094")	1.5	38.1	2.625	66.68	10	\$28.30
HCL01123	1/8" (0.1250")	1.625	41.28	2.75	69.85	10	\$29.30
HCL01132	9/64" (0.1406")	1.75	44.45	2.875	73.03	10	\$28.80
HCL01143	5/32" (0.1562")	2	50.8	3.125	79.38	10	\$32.10
HCL01154	11/64" (0.1719")	2.125	53.98	3.25	82.55	10	\$38.50
HCL01165	3/16" (0.1875")	2.313	58.75	3.5	88.9	10	\$39.20
HCL01176	13/64" (0.2031")	2.438	62.0	3.625	92.08	10	\$47.40
HCL01186	7/32" (0.2188")	2.5	63.5	3.75	95.25	10	\$52.60
HCL01195	15/64" (0.2344")	2.625	66.8	3.875	98.43	10	\$61.10
HCL01204	1/4"-E (0.2500")	2.75	69.85	4	101.6	10	\$62.80
HCL01212	17/64" (0.2656")	2.875	73.03	4.125	104.78	10	\$70.80
HCL01226	9/32" (0.2812")	2.938	74.63	4.25	107.95	10	\$79.30
HCL01230	19/64" (0.2969")	3.063	77.8	4.375	111.13	5	\$92.00
HCL01237	5/16" (0.3125")	3.188	80.98	4.5	114.3	5	\$98.10
HCL01245	21/64" (0.3281")	3.313	84.15	4.625	117.4	5	\$105.80
HCL01252	11/32" (0.3438")	3.438	87.33	4.75	120.65	5	\$121.20
HCL01260	23/64" (0.3594")	3.5	88.9	4.875	123.83	5	\$129.90
HCL01267	3/8" (0.3750")	3.625	92.08	5	127	5	\$144.40
HCL01275	25/64" (0.3906")	3.75	95.25	5.125	130.18	5	\$164.20
HCL01281	13/32" (0.4062")	3.875	98.43	5.25	133.35	5	\$167.90
HCL01284	27/64" (0.4219")	3.938	100.03	5.375	136.53	5	\$187.00
HCL01287	7/16" (0.4375")	4.063	103.2	5.5	139.7	5	\$194.00
HCL01290	29/64" (0.4531")	4.188	106.38	5.625	142.88	5	\$219.00
HCL01292	15/32" (0.4688")	4.313	109.55	5.75	146.05	5	\$232.00
HCL01295	31/64" (0.4844")	4.375	111.13	5.875	149.23	5	\$242.00
HCL01297	1/2" (0.5000")	4.5	114.3	6	152.4	5	\$248.00
HCL01300	33/64" (0.5156")	4.813	122.25	6.625	168.28	1	\$931.00
HCL01302	17/32" (0.5312")	4.813	122.25	6.625	168.28	1	\$959.00
HCL01308	9/16" (0.5625")	4.813	122.25	6.625	168.28	1	\$1,063.00
HCL01310	37/64" (0.5781")	4.813	122.25	6.625	168.28	1	\$1,099.00
HCL01313	19/32" (0.5938")	5.188	131.78	7.125	180.98	1	\$1,163.00
HCL01318	5/8" (0.6250")	5.188	131.78	7.125	180.98	1	\$1,268.00
HCL01323	21/32" (0.6562")	5.188	131	7.125	180.98	1	\$1,378.00
HCL01328	11/16" (0.6875")	5.625	142.88	7.625	193.68	1	\$1,544.00
Milimétricas							
HCL01068	1.50 mm (0.0591")	0.709	18	1.575	40.00	10	\$50.70
HCL01087	2.00 mm (0.0787")	0.945	24	1.929	49.00	10	\$41.80
HCL01105	2.50 mm (0.0984")	1.181	30	2.244	57.00	10	\$41.80
HCL01120	3.00 mm (0.1181")	1.299	33	2.402	61.00	10	\$38.10
HCL01127	3.30 mm (0.1299")	1.496	36	2.638	67.00	10	\$40.60
HCL01130	3.50 mm (0.1378")	1.535	39	2.756	70.00	10	\$40.60
HCL01145	4.00 mm (0.1575")	1.693	43	2.953	75.00	10	\$46.90
HCL01147	20 (0.1610")	2.125	53.98	3.25	82.55	10	\$57.90
HCL01158	4.50 mm (0.1772")	1.85	47	3.15	80	10	\$48.80
HCL01172	5.00 mm (0.1969")	2.047	52	3.386	86	10	\$56.90
HCL01196	6.00 mm (0.2362")	2.244	57	3.661	93	10	\$62.80
HCL01218	7.00 mm (0.2756")	2.717	69	4.291	109	10	\$87.90
HCL01229	7.50 mm (0.2953")	2.717	69	4.291	109	5	\$99.00
HCL01238	8.00 mm (0.3150")	2.953	75	4.606	117	5	\$113.70
HCL01248	8.50 mm (0.3346")	2.953	75	4.606	117	5	\$170.90
HCL01266	9.50 mm (0.3740")	3.189	81	4.921	125	5	\$185.00
HCL01276	10.00 mm (0.3937")	3.425	87	5.236	133	5	\$172.70
HCL01283	10.50 mm (0.4134")	3.425	87	5.236	133	5	\$190.00
HCL01286	11.00 mm (0.4331")	3.701	94	5.591	142	5	\$226.00
HCL01293	12.00 mm (0.4724")	3.976	101	5.945	151	5	\$264.00

BROCAS FRACCIONALES ZANCO REDUCIDO A 1/2" USO GENERAL ACERO ALTA VELOCIDAD

Características



Aplicaciones



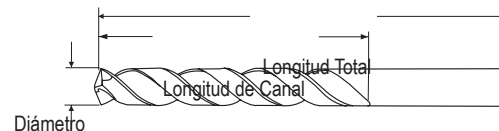
Especificaciones

Se utilizan para generar barrenos en donde la sujeción es limitada

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	\$1,112.00
HCL11185	21/32" (0.6562)	3-1/8	79.38	6	152.40	1	\$1,538.00
HCL11190	11/16" (0.6875)	3-1/8	79.38	6	152.40	1	\$1,645.00
HCL11198	3/4" (0.7500)	3-1/8	79.38	6	152.40	1	\$1,900.00
HCL11205	13/16" (0.8125)	3	76.19	6	152.40	1	\$2,180.00

BROCAS COTTER PIN-TOP

Características



Aplicaciones



Especificaciones

Broca de Acero Alta Velocidad con gran estabilidad para todas las aplicaciones estándar. La reducción Split-Point en la punta permite un excelente auto-centrado y reduce el esfuerzo de torsión. El recubrimiento TiN permite incrementar la velocidad de corte, así como el rendimiento de la broca.

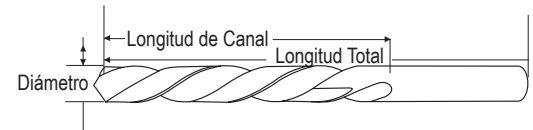
Clave	Descripción	Long. de Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HCL80004	1/8"	1.417	36	2.559	65	10	\$45.60
HCL80006	5/32"	1.693	43	2.953	75	10	\$47.70
HCL80008	3/16"	2.047	52	3.386	86	10	\$73.20
HCL80010	7/32"	2.244	57	3.361	93	10	\$84.00
HCL80012	1/4"	2.480	63	3.976	101	10	\$90.50
HCL80016	5/16"	2.953	75	4.606	117	5	\$183.00
HCL80020	3/8"	3.425	87	5.236	133	5	\$263.00
HCL80024	7/16"	3.701	94	5.591	142	1	\$345.00
HCL80032	1/2"	3.976	101	5.945	151	1	\$455.00

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	\$3,110.00
HCL00943	25 piezas de 1mm a 13mm por 5mm	1	\$3,630.00
HCL70365	Acabado Óxido de paja 29 Piezas de 1/8" a 1/2" x 1/64"	1	\$7,210.00

BROCAS ZANCO RECTO LARGAS



Características

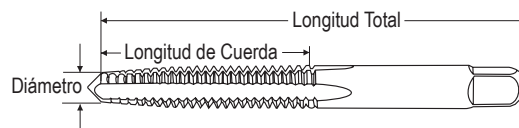


Aplicaciones



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	\$121.20
HCL08665	1/8" (0.1250)	2-3/4	69.85	5-1/8	130.18	10	\$132.10
HCL08674	9/64" (0.1406)	3	76.20	5-3/8	136.53	10	\$185.00
HCL08685	5/32" (0.1562)	3	76.20	5-3/8	136.53	10	\$160.20
HCL08707	3/16" (0.1875)	3-3/8	85.73	5-3/4	146.05	10	\$160.20
HCL08728	7/32" (0.2188)	3.625	92.08	6	152.40	10	\$228.00
HCL08746	1/4" - E (0.2500)	3-3/4	95.25	6-1/8	155.58	10	\$222.00
HCL08752	17/64" (0.2656)	3-7/8	98.43	6-1/4	158.75	10	\$269.00
HCL08872	23/32" (0.7188)	5-5/8	142.88	9-1/2	241.00	1	\$1,950.00
HCL08876	3/4" (0.7500)	5-7/8	149.23	9-3/4	247.65	1	\$2,200.00
HCL08883	13/16" (0.8125)	6-1/8	155.58	10	254.00	1	\$2,290.00
HCL08890	7/8" (0.8750)	6-1/8	155.58	10	254.00	1	\$2,500.00
HCL08897	15/16" (0.9375)	6-1/8	155.58	10-3/4	273.05	1	\$3,320.00

MACHUELO USO GENERAL



Características



Aplicaciones

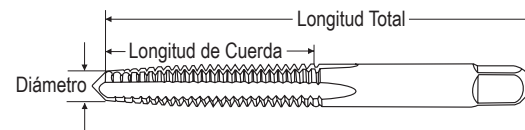


Especificaciones

Fabricados de Acero Cromo Vanadio que les permite rendir un amplio rango de materiales con excelente rendimiento en acero inoxidable.

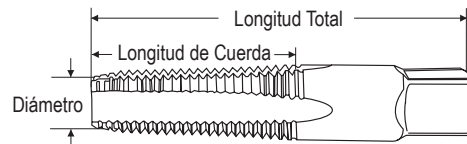
Clave	Hilos por pulgada	Ajuste	Long. de Cuerda		Long. Total		Canales	Empaque	Precio Unitario
			Pulg.	mm	Pulg.	mm			
HCL54189	N° 5-40 S	H2	5/8	15.88	1-15/16	49.21	3	10	\$139.80
HCL54224	N° 6-32 S	H3	11/16	17.46	2	50.80	3	10	\$115.80
HCL54278	N° 8-32 S	H3	3/4	19.05	2-1/8	53.98	4	10	\$107.10
HCL54330	N°10-24 S	H3	7/8	22.23	2-3/8	60.33	4	10	\$110.10
HCL54357	N°10-32 S	H3	7/8	22.23	2-3/8	60.33	4	10	\$110.10
HCL54390	N°12-28 S	H3	15/16	23.81	2-3/8	60.33	4	10	\$247.00
HCL206243	3/16-24 S	H3	7/8	22.22	2-3/8	60.33	4	10	\$170.60
HCL207243	7/32-24 S	H3	15/16	23.81	2-3/8	60.33	4	10	\$138.90
HCL54454	1/4 -20 S	H3	1	25.40	2-1/2	63.50	4	10	\$117.80
HCL54505	5/16-18 S	H3	1-1/8	28.58	2-23/32	69.06	4	5	\$145.40
HCL54583	3/8 -16 S	H3	1.250	31.75	2.938	74.61	4	5	\$164.30
HCL54653	7/16-14 S	H3	1.438	36.51	3.156	80.17	4	5	\$280.00
HCL54727	1/2 -13 S	H3	1.656	42.06	3.375	85.73	4	5	\$297.00
HCL54780	5/8 -11 S	H3	1.813	46.04	3.813	96.84	4	3	\$594.00
HCL54814	11/16-11 S	H3	1.813	46.04	4.031	102.39	4	1	\$739.00
HCL54839	3/4 -10 S	H3	2.000	50.80	4.250	107.95	4	3	\$832.00
HCL54885	7/8 -9 S	H4	2.219	56.36	4.688	119.06	4	1	\$1,160.00
HCL54924	1 - 8 S	H4	2.500	63.50	5.125	130.18	4	1	\$1,546.00
HCL54929	1 -12 S	H4	2.500	63.50	5.125	130.18	4	1	\$1,546.00
Milimétricos									
HCL54247	4 x 0.70 mm S	D4	3/4	19.05	2-1/8	53.98	4	10	\$146.70
HCL54304	4.5 x 0.75 mm S	D4	7/8	22.23	2-3/8	60.33	4	10	\$145.40
HCL54375	5 x 0.80 mm S	D4	7/8	22.23	2-3/8	60.33	4	10	\$145.40
HCL54414	6 x 1.00 mm S	D5	1	25.4	2-1/2	63.5	4	10	\$159.50
HCL54547	8 x 1.25 mm S	D5	1-1/8	28.58	2-23/32	69.06	4	5	\$177.00
HCL54625	10 x 1.50 mm S	D6	1-1/4	31.75	2-15/16	74.61	4	5	\$329.00
HCL54690	12 x 1.75 mm S	D6	1-21/32	42.07	3-3/8	85.73	4	5	\$430.00
HCL54802	16 x 2.00 mm S	D7	1-13/16	46.06	3-13/16	96.84	4	3	\$621.00
HCL54865	20 x 2.50 mm S	D7	2	50.8	4-15/32	113.51	4	1	\$1,109.00
HCL54992	30 x 3.50 mm R	D9	2-9/16	65.09	5-7/16	138.11	4	1	\$3,110.00

JUEGO DE MACHUELOS USO GENERAL

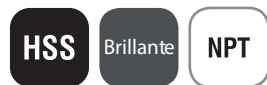


Clave	Hilos por pulgada	Ajuste	Long. de Cuerda		Long. Total		Canales	Empaque	Precio Unitario
			Pulg.	mm	Pulg.	mm			
HCL304402	1/8 - 40	H2	5/8	15.88	1-15/26	49.21	3	1	\$537.00
HCL305323	5/32 - 32	H3	3/4	19.05	2-1/8	53.98	4	1	\$426.00
HCL306243	3/16 - 24	H3	7/8	22.22	2-3/8	60.33	4	1	\$512.00
HCL307243	7/32 - 24	H3	15/16	23.81	2-3/8	60.33	4	1	\$417.00
HCL54460	1/4 - 20	H3	1	25.40	2-1/2	63.50	4	1	\$353.00
HCL54511	5/16 - 18	H3	1-1/8	28.58	2-23/32	69.06	4	1	\$436.00
HCL54587	3/8 - 16	H3	1.250	31.75	2.938	74.61	4	1	\$493.00
HCL54656	7/16 - 14	H3	1.438	36.51	3.156	80.17	4	1	\$839.00
HCL54731	1/2 - 13	H3	1.656	42.06	3.375	85.73	4	1	\$890.00
HCL54762	9/16 - 12	H3	1.656	42.07	3.594	91.28	4	1	\$1,486.00
HCL54782	5/8 - 11	H3	1.813	46.04	3.813	96.84	4	1	\$1,780.00
HCL54790	5/8 - 18	H3	1.813	46.04	3.813	96.84	4	1	\$1,780.00
HCL54816	11/16 - 11	H3	1.813	46.04	4.031	102.39	4	1	\$2,220.00
HCL54841	3/4 - 10	H3	2.000	50.80	4.250	107.95	4	1	\$2,500.00
HCL54887	7/8 - 9	H4	2.219	56.36	4.688	119.06	4	1	\$3,480.00
Milimétricos									
HCL3040704M	4 x 0.7 mm	D4	3/4	19.05	2-1/8	53.98	4	1	\$440.00
HCL3050804M	5 x 0.8 mm	D4	7/8	22.23	2-3/8	60.33	4	1	\$440.00
HCL3061005M	6 x 1.00 mm	D5	1	25.40	2-1/2	63.5	4	1	\$469.00
HCL3081255M	8 x 1.25 mm	D5	1-1/8	28.58	2-23/32	69.06	4	1	\$532.00
HCL3101255M	10 x 1.25 mm	D5	1-1/4	31.75	2-15/16	74.61	4	1	\$941.00
HCL3101506M	10 x 1.50 mm	D6	1-1/4	31.75	2-15/16	74.61	4	1	\$1,125.00
HCL3121756M	12 x 1.75 mm	D6	1-21/32	42.07	3-3/8	85.73	4	1	\$1,403.00
HCL3142007M	14 x 2.00 mm	D7	1-21/32	42.07	3-19/32	91.28	4	1	\$1,637.00
HCL3162007M	16 x 2.00 mm	D7	1-13/16	46.06	3-13/16	96.84	4	1	\$1,860.00
HCL3202507M	20 x 2.50 mm	D7	2	50.8	4-15/32	113.51	4	1	\$3,260.00

MACHUELO NPT



Características



Aplicaciones



Clave	Descripción	Hilos por pulgada	Número de Canales	Diám. de Zanco Pulgs.	mm	Long. Cuerda Pulgs.	mm	Long. Cuerda Pulgs.	mm	Empaque	Precio Unitario
HCL64036	1/16"	27	4	.3125	7.94	11/16	17.46	2-1/8	53.98	10	\$911.00
HCL64038	1/8"	27	4	.4375	11.11	3/4	19.05	2-1/8	53.98	5	\$424.00
HCL64039	1/4"	18	4	.5625	14.29	1-1/16	26.99	2-7/16	61.91	5	\$464.00
HCL64040	3/8"	18	4	.7000	17.78	1-1/16	26.99	2-9/16	65.09	3	\$685.00
HCL64041	1/2"	14	4	.6875	17.46	1-3/8	34.93	3-1/8	79.38	1	\$2,060.00
HCL64042	3/4"	14	5	.9063	23.02	1-3/8	34.93	3-1/4	82.55	1	\$2,910.00
HCL64043	1"	11-1/2	5	1.1250	28.58	1-3/4	44.45	3-1/4	95.25	1	\$4,380.00
HCL64045	1-1/2"	11-1/2	7	1.5000	38.10	1-3/4	44.45	1-1/4	107.95	1	\$8,510.00

BURIL CUADRADO MO-MAX ACERO ALTA VELOCIDAD

Características



Aplicaciones



Especificaciones

Se utilizan para generar formas y contornos cilíndricos en tornos y cepillos de codo.

Clave	Descripción	Long. Total		Empaque	Precio Unitario
		Pulg.	mm		
HCL44509	3/16"	2-1/2	63.50	10	\$132.80
HCL44513	1/4"	2-1/2	63.50	10	\$121.80
HCL44514	5/16"	2-1/2	53.50	10	\$156.30
HCL44516	3/8"	3	76.20	5	\$207.00
HCL44518	7/16"	3-1/2	88.90	5	\$304.00
HCL44520	1/2"	4	101.60	5	\$436.00
HCL44522	5/8"	4-1/2	114.30	4	\$645.00
HCL44525	3/4"	5	127.00	1	\$1,019.00

BURIL CUADRADO MO-MAX ACERO ALTA VELOCIDAD AL COBALTO

Características



Aplicaciones

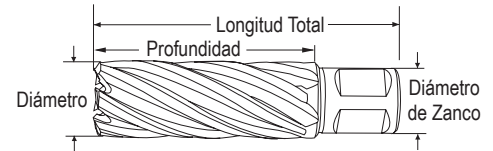


Especificaciones

Se utilizan para generar formas y contornos cilíndricos en tornos y cepillos de codo.

Clave	Descripción	Long. Total		Empaque	Precio Unitario
		Pulg.	mm		
HCL44544	1/4"	2-1/2	63.50	10	\$224.00
HCL44545	5/16"	2-1/2	53.50	10	\$262.00
HCL44547	3/8"	3	76.20	5	\$316.00
HCL44551	1/2"	4	101.60	5	\$785.00
HCL44553	5/8"	4-1/2	114.30	4	\$1,220.00

CORTADORES ANULARES ACERO ALTA VELOCIDAD



Características



Aplicaciones



Especificaciones

Aumenta la productividad en la perforación con los cortadores anulares, herramienta con la ventaja que corta en la periferia del agujero ahorrando tiempo y esfuerzo al tener menor volumen de maerial que eliminar a comparación de las brocas comunes.

Para aplicaciones generales.

Clave	Descripción	Diámetro Milimétrica	Pulgadas	Diám. de Zanco		Profundidad	Empaque	Precio Unitario
				Pulg.	mm			
HCL84001	1/2"	12.70	0.5000	3/4	19.05	1-1/4"	1	\$497.00
HCL84003	9/16"	14.29	0.5625	3/4	19.05	1-1/4"	1	\$569.00
HCL84005	5/8"	15.88	0.6250	3/4	19.05	1-1/4"	1	\$621.00
HCL84007	11/16"	17.46	0.6875	3/4	19.05	1-1/4"	1	\$662.00
HCL84009	3/4"	19.05	0.7500	3/4	19.05	1-1/4"	1	\$672.00
HCL84011	13/16"	20.64	0.8125	3/4	19.05	1-1/4"	1	\$765.00
HCL84013	7/8"	22.23	0.8750	3/4	19.05	1-1/4"	1	\$838.00
HCL84017	1"	25.40	1.0000	3/4	19.05	1-1/4"	1	\$983.00
HCL84021	1-1/8"	28.58	1.1250	3/4	19.05	1-1/4"	1	\$1,055.00
HCL84002	1/2"	12.70	0.5000	3/4	19.05	2-1/4"	1	\$662.00
HCL84004	9/16"	14.29	0.5625	3/4	19.05	2-1/4"	1	\$745.00
HCL84006	5/8"	15.88	0.6250	3/4	19.05	2-1/4"	1	\$776.00
HCL84008	11/16"	17.46	0.6875	3/4	19.05	2-1/4"	1	\$827.00
HCL84010	3/4"	19.05	0.7500	3/4	19.05	2-1/4"	1	\$827.00
HCL84012	13/16"	20.64	0.8125	3/4	19.05	2-1/4"	1	\$778.00
HCL84014	7/8"	22.23	0.8750	3/4	19.05	2-1/4"	1	\$1,086.00
HCL84016	15/16"	23.81	0.9375	3/4	19.05	2-1/4"	1	\$1,138.00
HCL84018	1 x 2"	25.40	1.0000	3/4	19.05	2-1/4"	1	\$1,179.00
HCL84027	1-5/16"	33.34	1.3125	3/4	19.05	2-1/4"	1	\$1,624.00
HCL84028	1-3/8"	34.93	1.3750	3/4	19.05	2-1/4"	1	\$1,707.00
HCL84030	1-1/2"	38.10	1.5000	3/4	19.05	2-1/4"	1	\$2,050.00
HCL84031	1-9/16"	38.69	1.5625	3/4	19.05	2-1/4"	1	\$2,110.00
HCL84040	2"	50.80	2.0000	3/4	19.05	2-1/4"	1	\$3,190.00
HCL84067	2-5/16"	53.98	2.1250	3/4	19.05	2-1/4"	1	\$6,780.00