



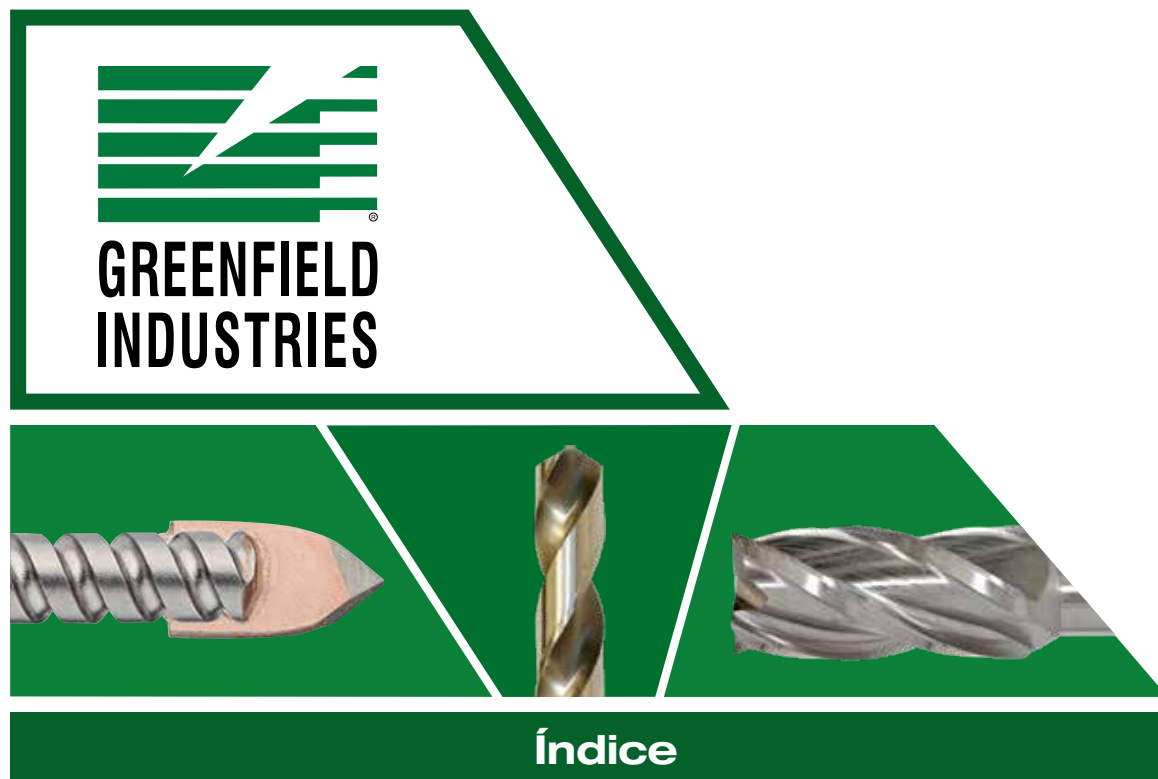
**GREENFIELD  
INDUSTRIES**



**ENERO 2020**

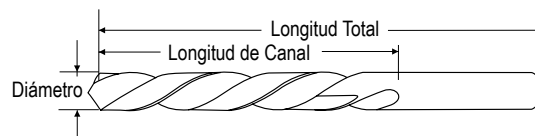


**TOLEDO®**



Brocas Zanco Recto MRO Acero Alta Velocidad Fraccionales Uso General .....	1
Juego de Brocas Fraccionales Zanco Recto.....	1
Brocas Longitud Jobber Acero Alta Velocidad al Cobalto .....	2
Brocas Acero Alta Velocidad con Zanco Reducido a 1/2".....	3
Brocas para Concreto .....	4
Brocas para Vidrio y Azulejo.....	4
Juegos de Extractores.....	5
Cortadores Verticales Fraccionales con Corte al Centro .....	5

## Brocas Zanco Recto MRO Acero Alta Velocidad Fraccionales Uso General



### Características

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

### Aplicaciones

<b>ACERO AL BAJA CARBÓN</b>	<b>ALEACIÓN DE COBRE</b>
<b>FUNDICIÓN</b>	
<b>ALUMINIO</b>	

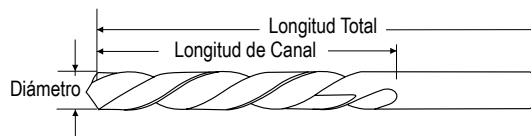
Clave	Descripción	Long. Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HGR292698	1/32" (0.0312")	1/2	12.70	1-3/8	34.93	10	\$32.80
HGR292699	3/64" (0.0469")	3/4	19.05	1-3/4	44.45	10	\$31.20
HGR292700	1/16" (0.0625")	7/8	22.23	1-7/8	47.63	10	\$16.60
HGR292701	5/64" (0.0781")	1	25.40	2	50.80	10	\$16.60
HGR292702	3/32" (0.0938")	1-1/4	31.75	2-1/4	57.15	10	\$17.20
HGR292703	7/64" (0.1094")	1-1/2	38.10	2-5/8	66.68	10	\$17.20
HGR292704	1/8" (0.1250")	1-5/8	41.28	2-3/4	69.85	10	\$16.60
HGR292705	9/64" (0.1406")	1-3/4	44.45	2-7/8	73.03	10	\$18.60
HGR292706	5/32" (0.1562")	2	50.80	3-1/8	79.38	10	\$20.60
HGR292707	11/64" (0.1719")	2-1/8	53.98	3-1/4	82.55	10	\$23.20
HGR292708	3/16" (0.1875")	2-5/16	58.74	3-1/2	88.90	10	\$23.20
HGR292709	13/64" (0.2031")	2-7/16	61.91	3-5/8	92.08	10	\$31.90
HGR292710	7/32" (0.2188")	2-1/2	63.50	3-3/4	95.25	10	\$33.80
HGR292711	15/64" (0.2344")	2-5/8	66.68	3-7/8	98.43	10	\$37.20
HGR292712	1/4"-E (0.2500")	2-3/4	69.85	4	101.60	10	\$35.90
HGR292713	17/64" (0.2656")	2-7/8	73.03	4-1/8	104.78	10	\$49.80
HGR292714	9/32" (0.2812")	2-15/16	74.61	4-1/4	107.95	10	\$59.00
HGR292715	19/64" (0.2969")	3-1/16	77.79	4-3/8	111.13	5	\$62.40
HGR292716	5/16" (0.3125")	3-3/16	80.96	4-1/2	114.30	5	\$61.10
HGR292717	21/64" (0.3281")	3-5/16	84.14	4-5/8	117.48	5	\$71.00
HGR292718	11/32" (0.3438")	3-7/16	87.31	4-3/4	120.65	5	\$80.90
HGR292719	23/64" (0.3594")	3-1/2	88.90	4-7/8	123.83	5	\$92.20
HGR292720	3/8" (0.3750")	3-5/8	92.08	5	127.00	5	\$88.80
HGR292721	25/64" (0.3906")	3-3/4	95.25	5-1/8	130.18	5	\$105.40
HGR292722	13/32" (0.4062")	3-7/8	98.43	5-1/4	133.35	5	\$106.80
HGR292723	27/64" (0.4219")	3-15/16	100.01	5-3/8	136.53	5	\$117.40
HGR292724	7/16" (0.4375")	4-1/16	103.19	5-1/2	139.70	5	\$127.40
HGR292725	29/64" (0.4531")	4-3/16	106.36	5-5/8	142.88	5	\$147.90
HGR292726	15/32" (0.4688")	4-5/16	109.54	5-3/4	146.05	5	\$155.60
HGR292727	31/64" (0.4844")	4-3/8	111.13	5-7/8	149.23	5	\$159.80
HGR292728	1/2" (0.5000")	4-1/2	114.30	6	152.40	5	\$161.40

## Juego de Brocas Fraccionales Zanco Recto



Clave	Descripción	Empaque	Precio Unitario
HGR292729	29 brocas 1/16"-1/2" x 1/64"	1	\$1,834.80
HGR290000	25 brocas 1 a 13 mm	1	\$2,406.20

## Brocas Longitud Jobber Acero Alta Velocidad al Cobalto



### Características

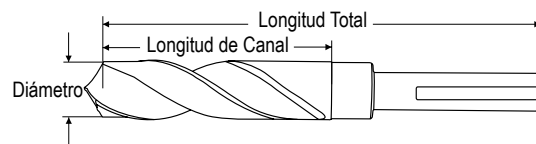
NAS 907 TYPE J	M42
TRABAJO PESADO	COLOR PAJA
ZANCO	135° SPLIT
A-COBALTO M-42	30°

### Aplicaciones

ALEACIÓN DE COBRE	ACERO GRADO HERRAMIENTA
ALUMINIO	ACERO PARA DADOS
INCONEL	ACERO ESTRUCTURAL
ALEACIÓN DE TITANIO	INOXIDABLE PRECIPITADO ENDURECIDO

Clave	Descripción	Long. Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HGR68344	1/16"	7/8	22.23	1-27/64	36.00	10	\$35.70
HGR68346	3/32"	1-1/4	31.75	2-1/4	50.80	10	\$37.10
HGR68351	1/8"	15/8	41.28	2-3/4	69.85	10	\$35.70
HGR68353	5/32"	2	50.80	3-1/8	79.38	10	\$44.40
HGR68355	3/16"	2-5/16	58.75	3-1/2	88.90	10	\$50.00
HGR68357	7/32"	2-1/2	63.50	3-3/4	95.25	10	\$73.00
HGR68359	1/4"	2-3/4	69.85	4	101.60	10	\$77.40
HGR68361	9/32"	2-15/16	74.63	4-1/4	107.95	10	\$127.20
HGR68363	5/16"	3-3/16	80.98	4-1/2	114.30	5	\$131.70
HGR68367	3/8"	3-5/8	92.08	5	127.00	5	\$191.40
HGR68371	7/16"	4-1/16	103.20	5-1/2	140.00	5	\$274.50
HGR68373	15/32"	4-5/16	109.54	5-3/4	147.00	5	\$335.30
HGR68375	1/2"	4-1/2	114.30	6	152.00	5	\$347.80
<b>Milimétricas</b>							
HGR710100	M1	.472	12.00	1.339	34.03	10	\$59.40
HGR710200	M2	.945	24.00	1.929	49.00	10	\$47.80
HGR710300	M3	1.299	33.00	2.402	66.01	10	\$43.60
HGR710500	M5	2.047	52.00	3.386	86.00	10	\$65.00
HGR710600	M6	2.244	57.00	3.661	93.00	10	\$71.70
HGR710700	M7	2.717	69.00	4.291	109.00	10	\$100.40
HGR710800	M8	2.953	75.00	4.606	117.00	5	\$130.00
HGR710900	M9	3.189	81.00	4.921	125.00	5	\$179.70
HGR711000	M10	3.425	87.00	5.236	133.00	5	\$197.30
HGR711100	M11	3.701	94.00	5.591	142.00	5	\$257.70
HGR711200	M12	3.976	101.00	5.945	151.00	5	\$302.00
HGR711300	M13	3.976	101.00	5.945	151.00	1	\$335.40
HGR711400	M14	4.252	108.00	6.299	160.00	1	\$725.70
HGR711500	M15	4.488	114.00	6.654	169.00	1	\$855.00
HGR711600	M16	4.724	120.00	7.008	178.00	1	\$910.00
HGR711800	M18	5.118	130.00	7.520	191.00	1	\$1,428.90
HGR712000	M20	5.511	140.00	8.0706	205.00	1	\$1,546.60

## Brocas Acero Alta Velocidad con Zanco Reducido a 1/2"



### Características

ESPECIFICACIONES ANSI

A.A.V.

118°



USO GENERAL

ACABADO OXIDO AL VAPOR

ZANCO

38°



### Aplicaciones

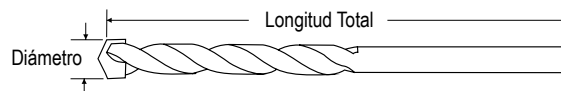
ACERO AL CARBÓN

ACERO ALEADO

FUNDICIÓN

Clave	Descripción	Long. Canal		Long. Total		Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm		
HGR20732	1/2"	3-1/8	79.38	6	152.40	1	\$451.70
HGR20734	17/32"	3-1/8	79.38	6	152.40	1	\$350.90
HGR20736	9/16"	3-1/8	79.38	6	152.40	1	\$364.90
HGR20738	19/32"	3-1/8	79.38	6	152.40	1	\$426.50
HGR20740	5/8"	3-1/8	79.38	6	152.40	1	\$397.60
HGR20742	21/32"	3-1/8	79.38	6	152.40	1	\$441.80
HGR20744	11/16"	3-1/8	79.38	6	152.40	1	\$487.50
HGR20746	23/32"	3-1/8	79.38	6	152.40	1	\$541.70
HGR20748	3/4"	3-1/8	79.38	6	152.40	1	\$579.10
HGR20750	25/32"	3-1/8	79.38	6	152.40	1	\$652.10
HGR20751	13/16"	3-1/8	79.38	6	152.40	1	\$630.60
HGR20753	7/8"	3-1/8	79.38	6	152.40	1	\$712.40
HGR20755	15/16"	3-1/8	79.38	6	152.40	1	\$793.40
HGR20757	1"	3-1/8	79.38	6	152.40	1	\$876.70
HGR20758	1-1/16"	3-1/8	79.38	6	152.40	1	\$1,121.60
HGR20759	1-1/8"	3-1/8	79.38	6	152.40	1	\$1,090.40
HGR20761	1-1/4"	3-1/8	79.38	6	152.40	1	\$1,302.80
HGR20762	1-5/16"	3-1/8	79.38	6	152.40	1	\$2,826.10
HGR20763	1-3/8"	3-1/8	79.38	6	152.40	1	\$2,910.90
HGR20765	1-1/2"	3-1/8	79.38	6	152.40	1	\$3,152.90

## Brocas para Concreto



### Características

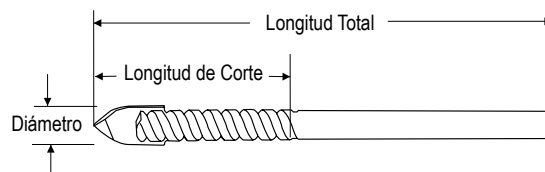


### Aplicaciones



Clave	Descripción	Long. Total		Empaque	Precio Unitario
		Pulg.	mm		
HGR890304	1/8" x 3"	3	76.2	10	\$15.00
HGR890406	3/16" x 4"	4	101.6	10	\$14.20
HGR890408	1/4" x 4"	4	101.6	10	\$15.00
HGR890410	5/16" x 4"	4	101.6	5	\$21.30
HGR890412	3/8" x 4"	4	101.6	5	\$29.30
HGR890608	1/4" x 6"	6	152.4	5	\$25.30
HGR890610	5/16" x 6"	6	152.4	5	\$34.00
HGR890612	3/8" x 6"	6	152.4	5	\$38.30
HGR890616	1/2" x 6"	6	152.4	5	\$52.20
HGR890620	5/8" x 6"	6	152.4	5	\$80.40
HGR890624	3/4" x 6"	6	152.4	5	\$153.30
HGR891308	1/4" x 12"	12	304.8	5	\$63.80
HGR891310	5/16" x 12"	12	304.8	5	\$68.80
HGR891312	3/8" x 12"	12	304.8	5	\$85.60
HGR891316	1/2" x 12"	12	304.8	5	\$98.80
HGR891320	5/8" x 12"	12	304.8	5	\$137.50
HGR891324	3/4" x 12"	12	304.8	5	\$209.40

## Brocas para Vidrio y Azulejo



### Características



### Aplicaciones



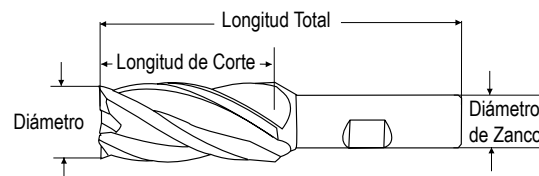
Clave	Descripción	Diámetro		Long. Total Pulgs.	Empaque	Precio Unitario
		Decimal	mm			
HGR882504	1/8"	.1250	3.18	2-1/2	10	\$43.10
HGR882506	3/16"	.1875	4.76	2-1/2	10	\$44.50
HGR882508	1/4"	.2500	6.35	2-1/2	10	\$52.80
HGR882810	5/16"	.3125	7.94	2-3/4	5	\$65.50
HGR883112	3/8"	.3750	9.53	3-1/8	5	\$95.10
HGR883116	1/2"	.5000	12.70	3-1/8	5	\$182.90

## Juegos de Extractores



Clave	Descripción	Empaque	Precio Unitario
HGR21149	#1 AL #5	1	\$357.40
HGR21151	#1 AL #9	1	\$1,705.60

## Cortadores Verticales Fraccionales con Corte al Centro



### Características

ESPECIFICACIONES	BRILLANTE
USO GENERAL	30°
	4+ CANALES CC

### Aplicaciones

ALEACIÓN DE TITANIO	ACERO INOXIDABLE
ALEACIÓN DE NIKEL	
ALEACIÓN DE COBALTO	

Clave	Descripción	Long. de Corte		Long. Total		No. de Canales	Empaque	Precio Unitario
		Pulg.	mm	Pulg.	mm			
HGR600412	1/8 x 3/8	3/8	9.53	2-5/16	58.74	4	1	\$183.80
HGR600612	3/16 x 3/8	5/8	15.88	2-7/16	61.92	4	1	\$183.80
HGR600812	1/4 x 3/8	3/4	19.05	2-1/2	63.50	4	1	\$183.80
HGR601012	5/16 x 3/8	3/4	19.05	2-1/2	63.50	4	1	\$183.80
HGR601212	3/8 x 3/8	3/4	19.05	2-1/2	63.50	4	1	\$183.80
HGR601616	1/2 x 1/2	1-1/4	31.75	3-1/4	82.55	4	1	\$285.90
HGR602020	5/8 x 5/8	1-5/8	41.28	3-3/8	85.73	4	1	\$492.50
HGR602424	3/4 x 3/4	1-5/8	41.28	3-7/8	98.43	4	1	\$514.20
<b>Milimétricos</b>								
HGR610412	4.00 mm	1/2	12.70	2-3/8	60.33	4	1	\$217.40
HGR610612	6.00 mm	5/8	15.88	2-7/16	61.92	4	1	\$217.40
HGR610812	8.00 mm	3/4	19.05	2-1/2	63.50	4	1	\$237.90
HGR611012	10.00 mm	1	25.40	2-11/16	68.26	4	1	\$273.90
HGR611216	12.00 mm	1-1/4	31.75	3-1/4	82.55	4	1	\$273.90
HGR611416	14.00 mm	1-3/8	34.93	3-3/8	82.73	4	1	\$424.10
HGR611620	16.00 mm	1-5/8	41.28	3-3/4	95.25	4	1	\$470.90
HGR611820	18.00 mm	1-5/8	41.28	3-3/4	95.25	4	1	\$499.80



**IMPORTACIONES TOLEDO, S.A. DE C.V.**  
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