



El Dorado
DRILLING TOOLS



CATÁLOGO
ACERO DE BARRENACIÓN

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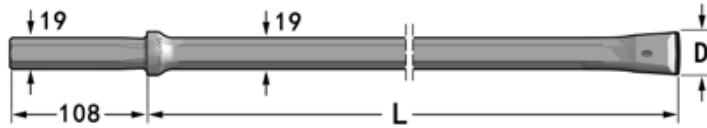
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ACERO DE FUNDICIÓN PARA ROSCAS



ACERO PARA MÁQUINA DE PIERNA

H19 (3/4") Barrenas integrales



Shank 19 x 108 mm (3/4" x 4 1/4")	Series	Length		Diámetro Broca		Weight	Código
		mm	ft/in	mm	inch	kg	
	21	400	1'4"	29	1 5/32"	1.3	MPR7A-291508-0400
		500	1'8"	29	1 5/32"	1.5	MPR7A-291508-0500
		800	2'7"	28	1 1/8"	2.2	MPR7A-291508-0800
		1200	3'11"	27	1 1/16"	3	MPR7A-271508-1200
		1600	5'3"	27	1 1/16"	4	MPR7A-271508-1600
		2400	7'10"	26	1 1/32"	5.7	MPR7A-261508-2400
		3200	10'6"	25	1"	7.5	MPR7A-251206-3200
		4000	13'1"	24	15/16"	9.2	MPR7A-241206-4000
	22	400	1'4"	24	15/16"	1.3	MPR7A-241206-0400
		800	2'7"	23	29/32"	2.2	MPR7A-231206-0800
24	600	2'	27	1 1/16"	1.7	MPR7A-271508-0600	
	1200	3'11"	26	1 1/32"	3.1	MPR7A-261508-1200	
	2400	7'10"	24	15/16"	5.7	MPR7A-241206-2400	

Shank 22 x 108 mm (7/8" x 4 1/4")

	400	1'4"	24	15/16"	1.4	MPR2A-241206-0400
	400	1'4"	29	1 5/32"	1.4	MPR2A-291508-0400
	800	2'7"	28	1 1/8"	2.3	MPR2A-281508-0800
	1600	5'3"	27	1 1/16"	4	MPR2A-271508-1600
	2400	7'10"	26	1 1/32"	5.8	MPR2A-261508-2400

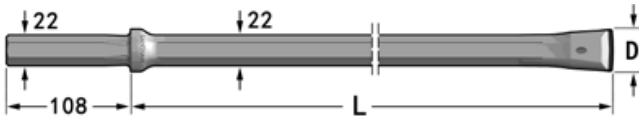
Barrenas integrales

Shank 19 x 108 mm (3/4" x 4 1/4")	Series	Length		Diámetro Broca		Weight	Código
		mm	ft/in	mm	inch	kg	
	21	150	6"	17	21/32"	0.6	MPR7A-171206-0150
		160	6 1/4"	20	25/32"	0.7	MPR7A-201206-0160
		200	7 7/8"	20	25/32"	0.8	MPR7A-201206-0200
		240	9 29/64"	20	25/32"	0.8	MPR7A-201206-0240
		280	11 1/32"	20	25/32"	0.9	MPR7A-201206-0280
		310	11 1/4"	20	25/32"	1	MPR7A-201206-0310
	22	160	6 1/4"	22	7/8"	0.7	MPR7A-221206-0160
		190	7 1/2"	22	7/8"	0.8	MPR7A-221206-0190



ACERO PARA MÁQUINA DE PIERNA

H22 (7/8") Barrenas Integrales



Shank 22 x 108 mm (7/8" x 4 1/4")	Series	Length		Diámetro Broca		Weight	Código
		mm	ft/in	mm	inch	kg	
ACERO DE BARRENACIÓN	11	800	2'7"	34	1 11/32"	3.0	MPR2A-341810-0800
		1600	5'3"	33	1 19/64"	5.4	MPR2A-331810-1600
		2400	7'10"	32	1 1/4"	7.9	MPR2A-321508-2400
		3200	10'6"	31	1 7/32"	10.3	MPR2A-311508-3200
		4000	13'1"	30	1 3/16"	12.6	MPR2A-301508-4000
		4800	15'9"	29	1 9/64"	15.1	MPR2A-291508-4800
		5600	18'4"	28	1 7/64"	17.6	MPR2A--281508-5600
		6400	21'	27	1 1/16"	19.9	MPR2A-271508-6400
		7200	23'8"	26	1 1/32"	22.3	MPR2A-261508-7200
	12	800	2'7"	40	1 37/64"	3.0	MPR2A-401810-0800
		1600	5'3"	39	1 17/32"	5.4	MPR2A-391810-1600
		2400	7'10"	38	1 1/2"	7.9	MPR2A-381810-2400
		3200	10'6"	37	1 29/64"	10.3	MPR2A-371810-3200
		4000	13'1"	36	1 27/64"	12.6	MPR2A-361810-4000
		4800	15'9"	35	1 3/8"	15.1	MPR2A-351810-4800
		5600	18'4"	34	1 11/32"	17.6	MPR2A-341810-5600
		6400	21'	33	1 19/64"	19.9	MPR2A-331810-6400
		7200	23'8"	32	1 1/4"	22.3	MPR2A-321508-7200
	13	400	1'4"	34	1 11/32"	1.8	MPR2A-341810-0400
		800	2'7"	33	1 19/64"	3.0	MPR2A-331810-0800
		1200	3'11"	32	1 1/4"	4.2	MPR2A-321508-1200
		1600	5'3"	31	1 7/32"	5.3	MPR2A-311508-1600
		2000	6'7"	30	1 3/16"	6.5	MPR2A-301508-2000
	16	600	2'	35	1 3/8"	2.4	MPR2A-351810-0600
		1200	3'11"	34	1 11/32"	4.2	MPR2A-341810-1200
		1800	5'11"	33	1 19/64"	6.1	MPR2A-331810-1800
		2400	7'10"	32	1 1/4"	7.9	MPR2A-321508-2400
	17	600	2'	41	1 5/8"	2.4	MPR2A-411810-0600
1200		3'11"	40	1 37/64"	4.3	MPR2A-401810-1200	
1800		5'11"	39	1 17/32"	6.1	MPR2A-391810-1800	
2400		7'10"	38	1 1/2"	7.9	MPR2A-381810-2400	
18	800	2'7"	29	1 9/64"	3.0	MPR2A-291508-0800	
	1600	5'3"	28	1 7/64"	5.3	MPR2A-281508-1600	
	2400	7'10"	27	1 1/16"	7.9	MPR2A-271508-2400	



ACERO PARA MÁQUINA DE PIERNA

Acero Cónico 7° taper

Brocas	Longitud		Dimensiones de botón, mm			Agujero de Barrido		Peso	Código
	mm	in	Height	Width	Class	mm	in	kg	
Broca tipo cincel (Punta de Herradura)									
	32	1 1/4"	13.5	8	3A	-	2	0.22	MPB7A-32722-13/8
	34	1 11/32"	13.5	8	3A	-	2	0.26	MPB7A-34722-13/8
	36	1 7/16"	13.5	8	3A	-	2	0.29	MPB7A-36722-13/8
	38	1 1/2"	13.5	8	3A	-	2	0.32	MPB7A-38723-13/8
	38	1 1/2"	15	9	3A	-	2	0.32	MPB7A-38723-15/9
	40	1 37/64"	13.5	9.2	3A	-	2	0.37	MPB7A-40723-13/9
	40	1 37/64"	13.5	9.2	4A	-	2	0.37	MPB7A-40723-13/9
	40	1 37/64"	15	9.8	3A	-	2	0.37	MPB7A-40723-15/10
	40	1 37/64"	15	9.8	4A	-	2	0.37	MPB7A-40723-15/10
	42	1 21/32"	13.5	9.2	3A	-	2	0.41	MPB7A-42723-13/9
	42	1 21/32"	13.5	9.2	4A	-	2	0.41	MPB7A-42723-13/9
	42	1 21/32"	15	9.8	3A	-	2	0.41	MPB7A-42723-15/10
	42	1 21/32"	15	9.8	4A	-	2	0.41	MPB7A-42723-15/10
Broca tipo cincel (Ranura oblicua)									
	30	1 3/16"	13.5	8	4A	-	2	0.21	MPB7A-30722-13/8
	32	1 1/4"	13.5	8	4A	-	2	0.22	MPB7A-32722-13/8
	34	1 11/32"	13.5	8	4A	-	2	0.26	MPB7A-34722-13/8
	36	1 7/16"	13.5	8	4A	-	2	0.29	MPB7A-36722-13/8
	38	1 1/2"	15	9	4A	-	2	0.33	MPB7A-38723-15/9
	40	1 37/64"	15	9.8	4A	-	2	0.37	MPB7A-40723-15/10
	42	1 21/32"	15	9.8	4A	-	2	0.41	MPB7A-42723-15/10
Broca tipo cincel (Ranura Plana)									
	45	1 3/4"	16	10	4A	1	2	0.56	MPB7A-45723-16/10
	50	1 31/32"	16	10	4A	1	2	0.61	MPB7A-50723-16/10
	55	1 1/4"	16	10	4A	1	2	0.75	MPB7A-55723-16/10
	60	2 23/64"	16	10	4A	1	2	0.86	MPB7A-45723-16/10
Broca tipo Cruz									
	32	1 1/4"	12	8	3A	1	2	0.26	MPB7A-32722-12/8
	34	1 11/32"	12	8	3A	1	2	0.29	MPB7A-34722-12/8
	36	1 7/16"	12	8	3A	1	2	0.32	MPB7A-36722-12/8
	38	1 1/2"	12	8	3A	1	2	0.37	MPB7A-38723-12/8
	40	1 37/64"	12	8	3A	1	2	0.40	MPB7A-40723-12/8
	42	1 21/32"	12	8	3A	1	2	0.43	MPB7A-42723-12/8
	45	1 3/4"	14	8	3A	1	2	0.49	MPB7A-45723-14/8
	50	1 31/32"	14	8	3A	1	2	0.62	MPB7A-50723-14/8
	55	2 1/4"	16	10	3A	1	2	0.82	MPB7A-55723-16/10



ACERO PARA MÁQUINA DE PIERNA

Acero Cónico, 7° taper

ACERO DE BARRENACIÓN

BITS	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in	kg	
Broca de botones para 22mm (7/8") Barra Hex.										
	32	1 1/4"	1×8	3×8		35°	1	1	0.24	MPB7A-32722-18/38
	34	1 11/32"	1×8	3×8		35°	1	1	0.26	MPB7A-34722-18/38
	36	1 7/16"	1×8	3×9		35°	1	1	0.27	MPB7A-36722-18/39
	38	1 1/2"	1×8	3×9		35°	1	1	0.32	MPB7A-38723-18/39
	40	1 37/64"	1×8	3×9		30°	1	1	0.36	MPB7A-40723-18/39
	40	1 37/64"	1×9	3×9		35°	1	1	0.36	MPB7A-40723-19/39
	42	1 21/32"	1×8	3×9		30°	1	1	0.4	MPB7A-42723-18/39
	42	1 21/32"	1×9	3×9		35°	1	1	0.4	MPB7A-42723-19/39
Broca de botones para 22mm (7/8") Barra Hex cuello largo										
	32	1 1/4"	2×7	5×7		35°	2	1	0.24	MPB7A-32722-27/57
	34	1 11/32"	2×7	5×7		35°	2	1	0.29	MPB7A-34722-27/57
	36	1 7/16"	2×7	5×8		35°	2	1	0.32	MPB7A-36722-27/58
	38	1 1/2"	2×7	5×8		35°	2	1	0.34	MPB7A-38723-27/58
	38	1 1/2"	2×7	5×9		35°	2	1	0.34	MPB7A-38723-27/59
	40	1 37/64"	2×7	5×9		35°	2	1	0.39	MPB7A-40723-27/59
	41	1 5/8"	2×8	5×9		35°	2	1	0.39	MPB7A-41723-28/59
	Broca de botones para 25mm (1") Barra Hex cuello largo.									
	41	1 5/8"	2×8	5×9		35°	2	1	0.39	MPB7A-41725-28/59
	43	1 11/16"	2×8	5×9		35°	2	1	0.39	MPB7A-43725-28/59
	45	1 3/4"	2×8	5×9		35°	2	1	0.45	MPB7A-45725-28/59
	51	1 31/32"	2×9	5×10		35°	2	1	0.62	MPB7A-51725-29/510



ACERO PARA MÁQUINA DE PIERNA

Barras	Longitud		Peso	Código
	mm	ft/in	kg	
Shank 22 x 108 mm (7/8" x 4 1/4")				
	1500	4'11"	4.68	MPR7A-H22-7/108-1500
	2000	6'7"	6.2	MPR7A-H22-7/108-2000
	2500	8'2"	7.73	MPR7A-H22-7/108-2500
	3000	9'10"	9.25	MPR7A-H22-7/108-3000
	3500	11'5"	10.78	MPR7A-H22-7/108-3500
	4000	13'1"	12.3	MPR7A-H22-7/108-4000
	4500	14'8"	13.83	MPR7A-H22-7/108-4500
Shank 25 x 159 mm (1" x 6 1/4")				
	4000	13'1"	16.65	MPR7A-H25-7/159-4000
	4700	15'4"	18.9	MPR7A-H25-7/159-4700
	5000	16'4"	22.1	MPR7A-H25-7/159-5000
	5500	18'1"	22.1	MPR7A-H25-7/159-5500



ACERO PARA MÁQUINA DE PIERNA

Acero Cónico, 11° taper

BROCAS	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca de botones- cuerpo corto										
	32	1 1/4"	2x7	3x8		35°	1	2	0.24	MPB4A-321122-27/38
	34	1 11/32"	1x8	3x8		35°	1	1	0.26	MPB4A-341122-18/38
	36	1 7/16"	1x8	3x9		40°	1	1	0.29	MPB4A-361122-18/39
	38	1 1/2"	2x8	3x9		40°	1	1	0.32	MPB4A-381122-28/39
	40	1 37/64"	2x8	3x9		40°	1	1	0.36	MPB4A-401122-28/39
Broca de botones- cuerpo corto										
	32	1 1/4"	2x7	4x7		35°	1	1	0.24	MPB4A-321122-27/47
	34	1 11/32"	2x7	4x7		35°	2	1	0.29	MPB4A-341122-27/47
	36	1 7/16"	2x7	4x8		35°	2	1	0.32	MPB4A-361122-27/48
Broca de botones- cuerpo corto										
	32	1 1/4"	2x7	5x7		40°	1	1	0.24	MPB4A-321122-27/57
	34	1 11/32"	2x7	5x7		35°	1	1	0.29	MPB4A-341122-27/57
	36	1 7/16"	2x7	5x8		35°	1	1	0.32	MPB4A-361122-27/58
	38	1 1/2"	2x7	5x8		35°	1	1	0.34	MPB4A-381123-27/58
	38	1 1/2"	2x7	5x9		40°	1	1	0.34	MPB4A-381123-27/59
	40	1 37/64"	2x7	5x9		35°	1	1	0.39	MPB4A-401123-27/59
	41	1 5/8"	2x8	5x9		35°	1	1	0.39	MPB4A-411123-28/59

Barras	Longitud		Peso kg	Código
	mm	ft/in		
Shank 22 x 108 mm (7/8" x 4 1/4")				
	610	2'	2.2	MPR4A-H22-11/108-0610
	800	3'3"	2.78	MPR4A-H22-11/108-0800
	1220	4'	4.06	MPR4A-H22-11/108-1220-
	1830	6'	5.92	MPR4A-H22-11/108-1830
	2000	6'7"	6.44	MPR4A-H22-11/108-2000
	2435	8'	7.76	MPR4A-H22-11/108-2435
	3050	10'	9.64	MPR4A-H22-11/108-3050
	3660	12'	11.5	MPR4A-H22-11/108-3660
	4000	13'1"	12.54	MPR4A-H22-11/108-4000
	4800	15'9"	14.98	MPR4A-H22-11/108-4800
	5600	18'4"	17.42	MPR4A-H22-11/108-5600
	6400	21'	19.86	MPR4A-H22-11/108-6400
	7200	23'6"	22.3	MPR4A-H22-11/108-7200
8000	26'2"	24.74	MPR4A-H22-11/108-8000	



ACERO DE MÁQUINA DE PIERNA

Acero Cónico, 12° taper

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca de botones- cuerpo corto										
	28	1 1/8"	1×7	4×7		35°	1	1	0.2	MPB6A-281222-17/47
	30	1 3/16"	1×7	4×7		35°	1	1	0.22	MPB6A-301222-17/47
Broca de botones- cuerpo corto										
	28	1 1/8"	1×7	3×7		35°	1	1	0.2	MPB6A-281222-17/37
	30	1 3/16"	1×7	3×7		35°	1	1	0.22	MPB6A-281222-17/37
	32	1 1/4"	2×7	3×8		35°	1	2	0.24	MPB6A-321222-27/38
	34	1 11/32"	1×8	3×8		35°	1	1	0.26	MPB6A-341222-18/38
	36	1 7/16"	1×8	3×9		40°	1	1	0.29	MPB6A-361222-18/39
	38	1 1/2"	2×8	3×9		40°	1	1	0.32	MPB6A-381222-28/39
40	1 37/64"	2×8	3×9		40°	1	1	0.36	MPB6A-401222-28/39	
Broca de botones- cuerpo corto										
	32	1 1/4"	2×7	4×7		35°	1	1	0.24	MPB6A-321222-27/47
	34	1 11/32"	2×7	4×7		35°	2	1	0.29	MPB6A-341222-27/47
	36	1 7/16"	2×7	4×8		35°	2	1	0.32	MPB6A-361222-27/48
Broca de botones- cuerpo corto										
	32	1 1/4"	2×7	5×7		40°	2	1	0.24	MPB6A-321222-27/57
	34	1 11/32"	2×7	5×7		35°	2	1	0.29	MPB6A-341222-27/57
	35	1 3/8"	2×7	5×8		40°	2	1	0.32	MPB6A-351222-27/58
	36	1 7/16"	2×7	5×8		40°	2	1	0.32	MPB6A-361222-27/58
	38	1 1/2"	2×7	5×8		35°	2	1	0.34	MPB6A-381223-27/58
	38	1 1/2"	2×7	5×9		40°	2	1	0.34	MPB6A-381223-27/59
	41	1 5/8"	2×8	5×9		40°	2	1	0.39	MPB6A-411223-28/59
Broca de botones- cuerpo corto										
	33	1 9/64"	2×7	5×7		40°	2	1	0.29	MPB6A-331222-27/57
	35	1 3/8"	2×7	5×8		40°	2	1	0.32	MPB6A-351222-27/58
	38	1 1/2"	2×7	5×9		40°	2	1	0.34	MPB6A-381223-27/59
Tipo Cruz- cuerpo corto										
	30	1 3/16"	-	-	-	-	1	2	0.24	MPB6A-301222-12/8
	32	1 1/4"	-	-	-	-	1	2	0.24	MPB6A-321222-12/8
	34	1 11/32"	-	-	-	-	1	2	0.29	MPB6A-341222-12/8
	35	1 3/8"	-	-	-	-	1	2	0.29	MPB6A-351222-12/8
	36	1 7/16"	-	-	-	-	1	2	0.32	MPB6A-361222-12/8
	38	1 1/2"	-	-	-	-	1	2	0.34	MPB6A-381222-12/8



ACERO DE MÁQUINA DE PIERNA

Acero Cónico, 12° taper

ACERO DE BARRENACIÓN


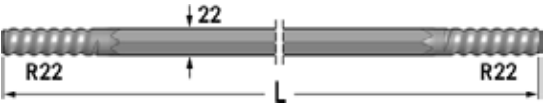
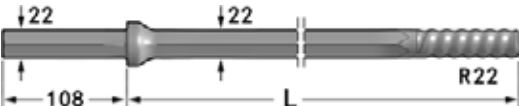
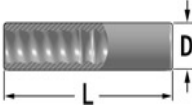
Barras	Longitud		Peso	Código
	mm	ft/in	kg	
Shank 22 x 108 mm (7/8" x 4 1/4")				
	610	2'	2.2	MPR6A-H22-12/108-0610
	800	3'3"	2.78	MPR6A-H22-12/108-0800
	1220	4'	4.06	MPR6A-H22-12/108-1220
	1830	6'	5.92	MPR6A-H22-12/108-1830
	2000	6'7"	6.44	MPR6A-H22-12/108-2000
	2435	8'	7.76	MPR6A-H22-12/108-2435
	3050	10'	9.64	MPR6A-H22-12/108-3050
	3660	12'	11.5	MPR6A-H22-12/108-3660
	4000	13'1"	12.54	MPR6A-H22-12/108-4000-
	4800	15'9"	14.98	MPR6A-H22-12/108-4800
	5600	18'4"	17.42	MPR6A-H22-12/108-5600
	6400	21'	19.86	MPR6A-H22-12/108-6400
	7200	23'6"	22.3	MPR6A-H22-12/108-7200
	8000	26'2"	24.74	MPR6A-H22-12/108-8000



ACERO DE MÁQUINA DE PIERNA

R22 (7/8") Acero para perforación de extensión

BITS	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Tipo Cruz										
	38	1 1/2"	-	-	-	-	1	2	0.34	THBAA-38R22-12/8
	40	1 37/64"	-	-	-	-	1	2	0.37	THBAA-40R22-12/8

	Longitud		Diámetro Broca		Peso kg	Código
	mm	ft/in	mm	inch		
Barra extensión R22-Hex22-R22						
	800	2'7"	22	7/8"	2.44	THRAA-H22-R22-0800
	1200	3'11"	22	7/8"	3.66	THRAA-H22-R22-1200
	1600	5'3"	22	7/8"	4.88	THRAA-H22-R22-1600
	2000	6'7"	22	7/8"	6.1	THRAA-H22-R22-2000
	2435	8'	22	7/8"	7.44	THRAA-H22-R22-24354
Shank adapter/Shank rod Hex22-R22						
	255	10 3/64"	22	7/8"	1.12	MPR7A-H22-R22/108-0255
	1000	3'3"	22	7/8"	3.39	MPR7A-H22-R22/108-1000
Cople, R22						
	140	5 1/2"	32	1 1/4"	0.6	THCAA-R22-32-140



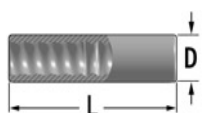
TOP HAMMER PARA SUBTERRÁNEA

R25 (1") Acero para perforación de extensión

ACERO DE BARRENACIÓN

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in		
Broca de botones										
	35	1 3/8"	2×7	5×8		35°	1	1	0.4	THBCA-35R25-27/58
	35	1 3/8"	2×7	5×8		35°	1	1	0.4	THBCA-35R25-27/58
	38	1 1/2"	2×7	5×9		30°	1	1	0.5	THBCA-38R25-27/59
	38	1 1/2"	2×7	5×9		35°	1	1	0.5	THBCA-38R25-27/59
	41	1 5/8"	2×8	5×9		35°	1	1	0.6	THBCA-41R25-28/59
	41	1 5/8"	2×8	5×9		35°	1	1	0.6	THBCA-43R25-28/59
Broca de botones										
	45	1 3/4"	3×8	6×9		40°	3	-	0.8	MPB4A-321122-27/47

Barras	Longitud		Diámetro Broca		Peso kg	Código
	mm	ft/in	mm	inch		
Barra de extensión-R25-Hex25-R25						
	915	2'7"	25	1"	3.66	THRCA-H25-R25-0915
	1220	3'11"	25	1"	4.88	THRCA-H25-R25-1220
	1525	5'3"	25	1"	6.1	THRCA-H25-R25-1525
	1830	6'7"	25	1"	7.32	THRCA-H25-R25-1830
	2435	8'	25	1"	9.74	THRCA-H25-R25-2435
	3050	10'	25	1"	12.2	THRCA-H25-R25-3050
Barra adaptador máquina de pierna Hex22-R25						
	255	10 3/64"	22	7/8"	1.14	MPR7A-H22-R25/108-0255
	800	2'7"	22	7/8"	2.78	MPR7A-H22-R25/108-0800
	1000	3'3"	22	7/8"	3.39	MPR7A-H22-R25/108-1000
Cople, R25						
	150	5 7/8"	35	1 3/8"	0.7	THCAA-R25-35-150





TOP HAMMER PARA SUBTERRÁNEA

R25 (1")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in	kg	
Broca de botones										
	33	1 5/16"	2×7	5×7		35°	1	1	0.4	THBCA-33R25-27/57
	35	1 3/8"	2×7	5×9		30°	1	1	0.5	THBCA-35R25-27/59
	37	1 29/64"	2×7	5×9		30°	1	1	0.6	THBCA-37R25-27/59
	38	1 1/2"	2×7	5×9		30°	1	1	0.6	THBCA-38R25-27/59
	41	1 5/8"	2×8	5×9		35°	1	1	0.6	THBCA-41R25-28/59
Tipo Cruz										
	33	1 5/16"	-	-	-	-	1	2	0.4	THBCA-33R25-12/8
	35	1 3/8"	-	-	-	-	1	2	0.5	THBCA-35R25-14/8
	38	1 1/2"	-	-	-	-	1	2	0.6	THBCA-38R25-14/8
Broca rimadora 6", Tapper										
	64	2 1/2"	4×8	8×9		25°	-	-	0.9	THBCA-646-48/89
	76	3"	4×10	8×10		30°	-	-	1.3	THBCA-766-410/810
	89	3 1/2"	4×11	8×11		30°	-	-	1.7	THBCA-896-411/811
Adaptador piloto, 6" taper, R25 thread										
	26	1 1/32"	-	-	-	-	-	-	1.3	THACA-26R25-15/8

ACERO DE BARRENACIÓN

Barras	Longitud		Diámetro Broca		Peso	Código	
	mm	ft/in	mm	inch	kg		
Barras, R32-Hex25- R25							
	2200	7' 2 5/8"	25	1"	8.9	THRCA-R25/R32-2200	
	2400	7' 10 1/2"	25	1"	9.7	THRCA-R25/R32-2400	
	2600	8' 6 3/8"	25	1"	10.5	THRCA-R25/R32-2600	
	2800	9' 2 1/4"	25	1"	11.3	THRCA-R25/R32-2800	
	3090	10' 1 5/8"	25	1"	12.4	THRCA-R25/R32-3090	
	3700	12' 1 5/8"	25	1"	14.9	THRCA-R25/R32-3700	
Cople							
	R32	150	5 7/8"	44	1 23/32"	1	THCEA-R32-44-150



TOP HAMMER PARA SUBTERRÁNEA

R28 (1 1/8")

ACERO DE BARRENACIÓN






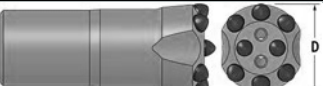
















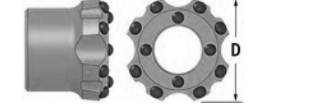




Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in	kg	
Broca de botones										
	38	1 1/2"	2x7	5x9		30°	1	1	0.6	THBDA-38R28-27/59
	38	1 1/2"	2x7	5x9		35°	1	1	0.6	THBDA-38R28-27/59
	41	1 5/8"	2x8	5x9		35°	1	1	0.7	THBDA-41R28-28/59
	43	1 11/16"	2x8	5x10		30°	1	1	0.7	THBDA-43R28-28/510
Tipo Cruz										
	38	1 1/2"	-	-	-	-	1	2	0.6	THBDA-38R28-14/8
	41	1 5/8"	-	-	-	-	1	2	0.7	THBDA-41R28-14/8
Broca rimadora, 6° taper										
	64	2 1/2"	4x8	8x9		25°	-	-	0.9	THBDA-646-48/89
	76	3"	4x10	8x10		30°	-	-	1.3	THBDA-766-410/810
	89	3 1/2"	4x11	8x11		30°	-	-	1.7	THBDA-896-411/811
Adaptador piloto 6° taper, R28 thread										
	26	1 1/32"	-	-	-	-	-	-	1.3	THADA-26R28-15/8

Barras	Longitud		Diámetro Broca		Peso	Código	
	mm	ft/in	mm	inch	kg		
Barra, R32-Hex28-R28							
	2400	7' 10 1/2"	28	1 1/8"	12.3	THRDA-R28/R32-2400	
	2750	9' 1/4"	28	1 1/8"	14.1	THRDA-R28/R32-2750	
	3090	10' 1 5/8"	28	1 1/8"	15.8	THRDA-R28/R32-3090	
	3700	12' 1 5/8"	28	1 1/8"	18.9	THRDA-R28/R32-3700	
	4310	14' 1 5/8"	28	1 1/8"	22	THRDA-R28/R32-4310	
Cople							
	R32	150	5 7/8"	44	1 23/32"	1	THCEA-R32-44-150



TOP HAMMER PARA SUBTERRÁNEA

R32 (1 1/4")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in	kg	
Broca de botones										
	43	1 11/16"	2×9	5×10		35°	1	2	0.7	THBEA-43R32-29/510
	45	1 3/4"	2×9	5×11		30°	1	2	0.8	THBEA-45R32-29/511
	48	1 7/8"	2×9	5×11		35°	1	2	0.9	THBEA-48R32-29/511
	51	2"	2×10	5×12		35°	1	2	1	THBEA-51R32-210/512
Broca de botones										
	43	1 11/16"	2×9	6×9		40°	2	2	0.7	THBEA-43R32-29/69
	45	1 3/4"	2×9	6×10		35°	2	2	0.8	THBEA-45R32-29/610
Broca de botones										
 	45	1 3/4"	3×8	6×10		25°	3	1	0.8	THBEA-45R32-38/610
	45	1 3/4"	3×8	6×10		30°	3	1	0.8	THBEA-45R32-38/610
	48	1 7/8"	3×9	6×10		30°	3	1	0.9	THBEA-48R32-39/610
	48	1 7/8"	3×9	6×10		30°	3	1	0.9	THBEA-48R32-39/610
	51	2"	3×9	6×10		35°	3	1	1	THBEA-51R32-39/610
	51	2"	3×9	6×10		35°	3	1	1	THBEA-51R32-39/610
Tipo Cruz										
	45	1 3/4"	-	-	-	-	1	4	0.8	THBEA-45R32-16/10
	51	2"	-	-	-	-	1	4	1	THBEA-51R32-16/10
Broca rimadora y adaptador piloto, 6° taper, R32 thread										
 	64	2 1/2"	4×8	8×9		25°	-	-	0.9	THBEA-646-48/89
	76	3"	4×10	8×10		30°	-	-	1.3	THBEA-766-410/810
	89	3 1/2"	4×11	8×11		30°	-	-	1.7	THBEA-896-411/811
	26	1 1/32"	-	-	-	-	-	-	1.3	THAEA-26R32-15/8
Broca rimadora y adaptador piloto, 12° taper, R32 thread										
 	89	3 1/2"	4×10	8×12		35°	-	-	1.7	THBEA-8912-410/812
	102	4"	4×12	8×12		35°	-	-	2.1	THBEA-10212-412/812
	127	5"	8×12	8×13		35°	-	-	3.6	THBEA-12712-812/813
	40	1 37/64"	-	-	-	-	-	-	2.9	THAEA-40R32-18/10



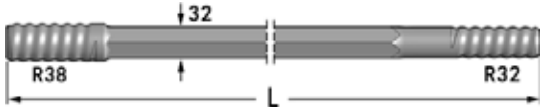
TOP HAMMER PARA SUBTERRÁNEA


R32 (1 1/4")

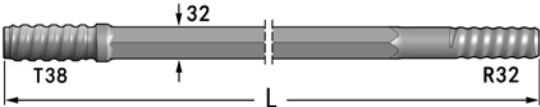
Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perforia No Size	Tipo		mm	in		
Broca rimadora, R32	102	4"	9×12	8×12		35°	2	2	3.6	THBEA-102R32-912/812

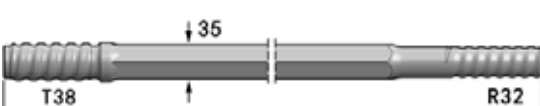


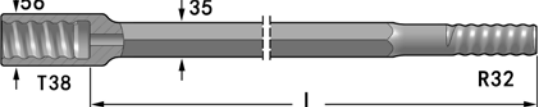
Barras	Longitud		Diámetro Broca		Peso kg	Código
	mm	ft/in	mm	inch		


Barra, R38-Hex32-R32						
	3090	10' 1 5/8"	32	1 1/4"	19.8	THREA-R32/R38-3090
	3700	12' 1 5/8"	32	1 1/4"	23.7	THREA-R32/R38-3700
	4310	14' 1 5/8"	32	1 1/4"	27.6	THREA-R32/R38-4310
	4920	16' 1 3/8"	32	1 1/4"	31.5	THREA-R32/R38-4920

Barra, R38-Hex35-R32						
	3090	10' 1 5/8"	35	1 3/8"	24.5	THREA-R32/R38-3090
	3700	12' 1 5/8"	35	1 3/8"	29.3	THREA-R32/R38-3700
	4310	14' 1 5/8"	35	1 3/8"	34.1	THREA-R32/R38-4310
	4920	16' 1 3/8"	35	1 3/8"	38.9	THREA-R32/R38-4920

Barra, T38-Hex32-R32						
	3700	12' 1 5/8"	32	1 1/4"	23.7	THREA-R32/T38-3700
	4310	14' 1 5/8"	32	1 1/4"	27.6	THREA-R32/T38-4310
	4920	16' 1 3/8"	32	1 1/4"	31.5	THREA-R32/T38-4920

Barra, T38-Hex35-R32						
	3090	10' 1 5/8"	35	1 3/8"	24.5	THREA-R32/T38-3090
	3700	12' 1 5/8"	35	1 3/8"	29.3	THREA-R32/T38-3700
	4310	14' 1 5/8"	35	1 3/8"	34.1	THREA-R32/T38-4310
	4920	16' 1 3/8"	35	1 3/8"	38.9	THREA-R32/T38-4920
	5530	18' 1 3/8"	35	1 3/8"	43.7	THREA-R32/T38-5530

Barra, T38-Hex35-R32						
	3700	12' 1 5/8"	35	1 3/8"	31.3	THREA-R32/R38-3700
	4310	14' 1 5/8"	35	1 3/8"	36.1	THREA-R32/R38-4310
	4920	16' 1 3/8"	35	1 3/8"	40.9	THREA-R32/R38-4920
	5530	18' 1 3/8"	35	1 3/8"	45.7	THREA-R32/T38-5530


















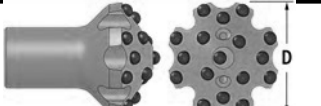

Cople							
	R38	170	6 3/4"	55	2 5/32"	1.9	THCGA-R38-55-170
	T38	190	6 1/8"	55	2 5/32"	2	THCIA-T38-55-190

ACERO DE BARRENACIÓN



TOP HAMMER PARA SUBTERRÁNEA

R35 (1 3/8")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in	kg	
Broca de botones										
	48	1 7/8"	2×9	5×11		35°	1	2	0.9	THBFA-48R35-29/511
	51	2"	2×10	5×12		35°	1	2	1	THBFA-51R35-210/512
Broca de botones										
	48	1 7/8"	3×9	6×10		30°	3	1	0.9	THBFA-48R35-39/610
	48	1 7/8"	3×9	6×10		30°	3	1	0.9	THBFA-48R35-39/610
	51	2"	3×9	6×10		35°	3	1	1	THBFA-51R35-39/610
	51	2"	3×9	6×10		35°	3	1	1	THBFA-51R35-39/610
Tipo cruz										
	48	1 7/8"	-	-	-	-	1	2	0.9	THBFA-48R35-16/10
	51	2"	-	-	-	-	1	2	1	THBFA-51R35-16/10
Broca retráctil										
	54	2 1/5"	3×9	6×11		30°	3	1	1.3	THBFA-54R35-39/611
Broca rimadora y adaptador piloto, 12° taper, R35 thread										
	89	3 1/2"	4×10	8×12		35°	-	-	1.7	THBFA-8912-410/812
	102	4"	4×12	8×12		35°	-	-	2.1	THBFA-10212-412/812
	127	5"	8×12	8×13		35°	-	-	3.6	THBFA-12712-812/813
	40	1 37/64"	-	-	-	-	-	-	2.9	THAFA-40R35-18/10
Broca rimadora, R35										
	102	4"	9×12	8×12		35°	2	2	3.6	THBFA-102R35-912/812

ACERO DE BARRENACIÓN



TOP HAMMER PARA SUBTERRÁNEA

R35 (1 3/8")

ACERO DE BARRENACIÓN

Barras	Longitud		Diámetro Broca		Peso	Código	
	mm	ft/in	mm	inch	kg		
Barra, T38-Hex35-R35							
	4310	14' 1 5/8"	35	1 3/8"	34.1	THRFA-R35/T38-4310	
	4920	16' 1 3/4"	35	1 3/8"	38.9	THRFA-R35/T38-4920	
	5530	18' 1 3/4"	35	1 3/8"	43.7	THRFA-R35/T38-5530	
	6100	20' 1/8"	35	1 3/8"	48.2	THRFA-R35/T38-6100	
Barra, T38-Round39-R35							
	4310	14' 1 5/8"	39	1 1/2"	35	THRFA-R35/T38-4310	
	4920	16' 1 3/8"	39	1 1/2"	39.9	THRFA-R35/T38-4920	
	5530	18' 1 3/4"	39	1 1/2"	44.8	THRFA-R35/T38-5530	
	6100	20' 1/8"	39	1 1/2"	49.5	THRFA-R35/T38-6100	
Barra, T35-Round39-R35							
	4310	14' 1 5/8"	39	1 1/2"	37	THEFA-R35/T38-4310	
	4920	16' 1 3/4"	39	1 1/2"	41.9	THEFA-R35/T38-4920	
	5530	18' 1 3/8"	39	1 1/2"	46.8	THEFA-R35/T38-5530	
	6100	20' 1/8"	39	1 1/2"	51.5	THEFA-R35/T38-6100	
Barra de extensión T35-Round39-T35							
	3050	10'	39	1 1/2"	26.7	THREA-T35/48-3050	
	3660	12'	39	1 1/2"	31.7	THREA-T35/48-3660	
	4270	14'	39	1 1/2"	36.6	THREA-T35/48-4270	
	4880	16'	39	1 1/2"	41.6	THREA-T35/48-4880	
Cople							
	T38	190	6 1/8"	55	2 5/32"	2	THCIA-T38-55-190



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

R32 (1 1/4")

BITS	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in	kg	
Broca de botones										
	51	2"	3×9	6×10		35°	3	1	1	THBEA-51R32-39/610
	51	2"	3×9	6×10		35°	3	1	1	THBEA-51R32-39/610
	57	2 1/4"	3×10	6×11		35°	3	1	1.2	THBEA-57R32-310/611
	64	2 1/2"	3×11	6×12		30°	3	-	1.6	THBEA-64R32-311/612
Broca de botones retráctil										
	51	2"	3×9	6×10		35°	3	-	1.2	THBEA-51R32-39/610
	51	2"	3×9	6×10		35°	3	-	1.2	THBEA-51R32-39/610
	57	2 1/4"	3×10	6×11		35°	3	-	1.7	THBEA-57R32-310/611
	64	2 1/2"	3×11	6×12		30°	3	-	2.1	THBEA-64R32-311/612
Tipo cruz										
	51	2"	-	-	-	-	1	2	1	THBEA-51R32-16/10
Broca guía										
	51	2"	3×8	6×10		40°	3	-	1.2	THBEA-51R32-38/610
Broca rimadora R32										
	102	4"	9×12	8×12		35°	2	2	3.6	THBEA-102R32-912/812
	127	5"	9×13	8×13		35°	2	2	6.9	THBEA-27R32-913/813

ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

R32 (1 1/4")

ACERO DE BARRENACIÓN

Barras	Longitud		Diámetro Broca		Peso	Código DDT
	mm	ft/in	mm	inch	kg	
Barra, R32-Round32-R32						
	915	3'	32	1 1/4"	5.4	THREA-R32-0915
	1220	4'	32	1 1/4"	7.2	THREA-R32-1220-
	1525	5'	32	1 1/4"	9	THREA-R32-1525
	1830	6'	32	1 1/4"	10.8	THREA-R32-1830
	2435	8'	32	1 1/4"	14.3	THREA-R32-2435
	3050	10'	32	1 1/4"	17.9	THREA-R32-3050
	3660	12'	32	1 1/4"	21.5	THREA-R32-3660
Barra MF, R32-Redonda R32-R32						
	915	3'	32	1 1/4"	6.2	THREA-R32/46-0915
	1220	4'	32	1 1/4"	8	THREA-R32/46-1220
	1525	5'	32	1 1/4"	9.8	THREA-R32/46-1525
	1830	6'	32	1 1/4"	11.6	THREA-R32/46-1830
	2435	8'	32	1 1/4"	15.1	THREA-R32/46-2435
	3050	10'	32	1 1/4"	18.7	THREA-R32/46-3050
	3660	12'	32	1 1/4"	22.3	THREA-R32/46-3660
Tubo guía						
	1830	6'	46	1 3/4"	16	THREA-R32/46-1830
	3050	10'	46	1 3/4"	26	THREA-R32/46-3050
Cople						
	150	5 7/8"	44	1 23/32"	1	THCEA-R32-44-150

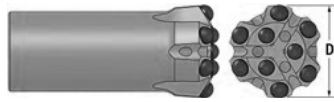


TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T35 (1 3/8")

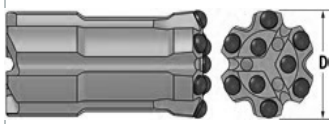
Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in	kg	

Broca de botones



54	2 1/6"	3×9	6×10		35°	3	1	1.1	THBHA-54T35-39/610
57	2 1/4"	3×10	6×11		35°	3	1	1.2	THBHA-57T35-310/611

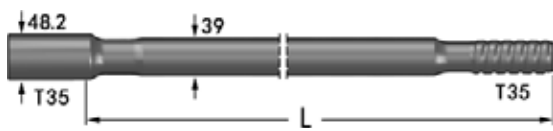
Broca de botones, Retráctil



54	2 1/5"	3×9	6×10		35°	3	-	1.3	THBHA-54T35-39/610
57	2 1/4"	3×10	6×11		35°	3	-	1.5	THBHA-57T35-310/611

Barras	Longitud		Diámetro Bit		Peso	Código DDT
	mm	ft/in	mm	inch	kg	

Barra MF, T35-Redonda39-T35



1830	6'	39	1 1/2"	16.5	THRHA-T35/48-1830
3050	10'	39	1 1/2"	26.4	THRHA-T35/48-3050
3660	12'	39	1 1/2"	31.3	THRHA-T35/48-3660
4270	14'	39	1 1/2"	36.2	THRHA-T35/48-4270



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T38 (1 1/2")



























Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in	kg	
Broca de botones										
	64	2 1/2"	3×11	6×12		30°	3	-	1.6	THBIA-64T38-311/612
	64	2 1/2"	3×11	6×12		35°	3	-	1.6	THBIA-64T38-311/612
	64	2 1/2"	5×9	8×10		35°	4	-	1.7	THBIA-64T38-59/810
	70	2 3/4"	5×10	8×11		30°	4	-	1.9	THBIA-70T38-510/811
	76	3"	5×11	8×12		35°	4	-	2.3	THBIA-76T38-511/812
	76	3"	5×11	8×11		40°	4	-	2.3	THBIA-76T38-511/811
	89	3 1/2"	5×12	8×12		35°	4	-	3.2	THBIA-89T38-512/812
Broca de botones, Cara Plana										
	64	2 1/2"	4×10	8×10		35°	2	-	1.6	THBIA--64T38-410/810
	70	2 3/4"	4×11	8×11		40°	2	-	1.9	THBIA-70T38-411/811
	76	3"	4×11	8×11		40°	2	-	2.3	THBIA-76T38-411/811
	89	3 1/2"	4×12	8×12		40°	2	-	2.3	THBIA-89T38-412/812
	76	3"	6×10	8×11		35°	2	-	2.3	THBIA-76T38-610/811
	76	3"	6×10	8×11		40°	2	-	2.3	THBIA-76T38-610/811
	89	3 1/2"	6×11	8×12		35°	2	-	3.2	THBIA-89T38-611/812
	Broca de botones, Drop center									
	64	2 1/2"	4×10	6×11		35°	3	-	1.6	THBIA-64T38-410/611
	64	2 1/2"	4×10	6×11		35°	3	-	1.6	THBIA-64T38-410/611
	70	2 3/4"	4×10	6×11		40°	3	-	1.9	THBIA-64T38-410/611
	76	3"	4×11	6×13		35°	3	-	2.3	THBIA-76T38-411/613
	76	3"	4×11	6×13		35°	3	-	2.3	THBIA-76T38-411/613
	89	3 1/2"	5×11	6×13		35°	3	-	3.2	THBIA-89T38-511/613
	76	3"	6×10	8×11		35°	4	-	2.3	THBIA-76T38-610/811
	76	3"	6×10	8×11		35°	4	-	2.3	THBIA-76T38-610/811
	89	3 1/2"	6×11	8×12		35°	4	-	3.2	THBIA-89T38-611/812
	Broca de botones, Retráctil									
	64	2 1/2"	3×11	6×12		30°	3	-	2.2	THBIA-64T38-311/612
	64	2 1/2"	3×11	6×12		35°	3	-	2.2	THBIA-64T38-311/612
	64	2 1/2"	5×9	8×10		35°	4	-	2.2	THBIA-64T38-59/810
	70	2 3/4"	5×10	8×11		30°	4	-	2.4	THBIA-70T38-510/811
	76	3"	5×11	8×12		35°	4	-	2.9	THBIA-76T38-511/812
	76	3"	5×11	8×11		40°	4	-	2.9	THBIA-76T38-511/811
	89	3 1/2"	5×12	8×12		35°	4	-	3.2	THBIA-89T38-512/812

ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T38 (1 1/2")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca de botones, Retráctil, Cara plana										
	64	2 1/2"	4×10	8×10		35°	2	-	2.2	THBIA-64T38-410/810
	64	2 1/2"	4×10	8×10		35°	2	-	2.2	THBIA-64T38-410/810
	70	2 3/4"	4×11	8×11		40°	2	-	2.4	THBIA-70T38-411/811
	76	3"	6×10	8×11		35°	2	-	3.2	THBIA-76T38-610/811
	76	3"	6×10	8×11		40°	2	-	3.2	THBIA-76T38-610/811
	89	3 1/2"	6×11	8×12		35°	2	-	4.7	THBIA-89T38-611/812"
Broca de botones, Cara Plana										
	64	2 1/2"	4×10	6×11		35°	3	1	2.2	THBIA-64T38-410/611
	64	2 1/2"	4×10	6×11		35°	3	1	2.2	THBIA-64T38-410/611
	70	2 3/4"	4×10	6×11		40°	3	1	2.4	THBIA-70T38-410/611
	76	3"	4×11	6×13		35°	3	1	3.2	THBIA-76T38-411/613
	76	3"	4×11	6×13		35°	3	1	3.2	THBIA-76T38-411/613
	76	3"	6×10	8×11		35°	4	1	3.2	THBIA-76T38-610/811
	76	3"	6×10	8×11		35°	4	1	3.2	THBIA-76T38-610/811
	89	3 1/2"	6×11	8×12		35°	4	1	4.7	THBIA-89T38-611/812
Broca Tipo X										
	64	2 1/2"	-	-	-	-	1	2	2	THBIA-64T38-25/13
	76	3"	-	-	-	-	1	2	2.6	THBIA-64T38-25/13
Broca Guía										
	64	2 1/2"	4×9	6×11		35°	3	1	1.9	THBIA-64T38-49/611
	76	3"	6×10	8×11		35°	4	-	2.4	THBIA-76T38-610/811
Broca rimadora, T38										
	102	4"	9×12	8×12		35°	2	2	3.6	THBIA-102T38-912/812
	127	5"	9×13	8×13		35°	2	2	6.9	THBIA-127T38-913/813



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T38 (1 1/2")


































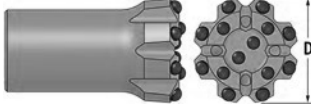







ACERO DE BARRENACIÓN

Barras	Longitud		Diámetro Broca		Peso	Código	
	mm	ft/in	mm	inch	kg		
Barra, R32-Redonda32-R32							
	1220	4'	39	1 1/2"	9.9	THRIA-T38-1220	
	1525	5'	39	1 1/2"	12.4	THRIA-T38-1525	
	1830	6'	39	1 1/2"	14.9	THRIA-T38-1830	
	3050	10'	39	1 1/2"	24.7	THRIA-T38-3050	
	3660	12'	39	1 1/2"	29.7	THRIA-T38-3660	
Barra MF, R32-Redonda32-R32							
	1220	4'	39	1 1/2"	11.5	THRIA-T38/57-1220	
	1525	5'	39	1 1/2"	14	THRIA-T38/57-1525	
	1830	6'	39	1 1/2"	16.5	THRIA-T38/57-1830	
	3050	10'	39	1 1/2"	26.4	THRIA-T38/57-3050	
	3660	12'	39	1 1/2"	31.3	THRIA-T38/57-3660	
	4270	14'	39	1 1/2"	36.2	THRIA-T38/57-4270	
Tubo guía							
	3050	10'	32	1 1/4"	19.6	THRIA-T38-3050	
Barra T38-Hex32-T38							
	1830	6"	56	1 13/64"	18.4	THRIA-T38/56-1830	
	3660	12"	56	1 13/64"	33.8	THRIA-T38/56-3660	
Cople							
	T38	190	6 1/8"	55	2 5/32"	2	THCIA-T38-55-190



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T45 (1 3/4")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in		
Broca de botones										
	70	2 3/4"	5×10	8×11		30°	4	-	2.3	THBJA-70T45-510/811
	76	3"	5×11	8×12		35°	4	-	2.5	THBJA-76T45-511/812
	76	3"	5×11	8×12		35°	4	-	2.5	THBJA-76T45-511/812
	76	3"	5×11	8×11		35°	4	-	2.5	THBJA-76T45-511/811
	89	3 1/2"	5×13	8×13		35°	4	-	3.2	THBJA-89T45-513/813
	89	3 1/2"	5×13	8×13		40°	4	-	3.2	THBJA-89T45-513/813
	89	3 1/2"	5×12	8×12		35°	4	-	3.2	THBJA-89T45-512/812
	102	4"	6×12	8×13		35°	4	-	4.4	THBJA-102T45-612/813
	102	4"	6×12	8×13		35°	4	-	4.4	THBJA-102T45-612/813
	102	4"	6×13	8×13		35°	4	-	4.4	THBJA-102T45-613/813
Broca de botones, Cara plana										
	76	3"	4×11	8×11		35°	2	-	2.7	THBJA-76T45-411/811
	76	3"	4×11	8×11		40°	2	-	2.7	THBJA-76T45-411/811
	89	3 1/2"	4×13	8×13		40°	2	-	3.5	THBJA-89T45-413/813
	76	3"	6×10	8×11		35°	2	-	2.7	THBJA-76T45-610/811
	76	3"	6×10	8×11		40°	2	-	2.7	THBJA-76T45-610/811
	89	3 1/2"	6×11	8×12		35°	2	-	3.5	THBJA-89T45-611/812
	89	3 1/2"	6×11	8×12		40°	2	-	3.5	THBJA-89T45-611/812
	102	4"	6×12	8×13		35°	2	-	4.5	THBJA-102T45-612/813
	102	4"	6×12	8×13		35°	2	-	4.5	THBJA-102T45-612/813
	89	3 1/2"	7×11	9×11		35°	3	-	3.5	THBJA-89T45-711/911
	89	3 1/2"	7×11	9×12		35°	3	-	3.5	THBJA-89T45-711/912
	102	4"	7×12	9×12		35°	3	-	4.5	THBJA-102T45-712/912
	102	4"	7×12	9×13		35°	3	-	4.5	THBJA-102T45-712/913
Broca de botones, Drop center										
	76	3"	4×11	6×13		35°	3	1	2.5	THBJA-76T45-411/613
	76	3"	4×11	6×13		35°	3	1	2.5	THBJA-76T45-411/613
	89	3 1/2"	5×11	6×13		35°	3	1	3.2	THBJA-89T45-511/613
	89	3 1/2"	5×11	6×13		35°	3	1	3.2	THBJA-89T45-511/613
	76	3"	6×10	8×11		35°	4	1	2.7	THBJA-76T45-610/811
	76	3"	6×10	8×11		35°	4	1	2.7	THBJA-76T45-610/811
	89	3 1/2"	6×11	8×12		35°	4	1	3.5	THBJA-89T45-611/812
	89	3 1/2"	6×11	8×12		35°	4	1	3.5	THBJA-89T45-611/812
	102	4"	6×12	8×13		35°	4	1	4.5	THBJA-102T45-612/813
	102	4"	6×12	8×13		35°	4	1	4.5	THBJA-102T45-612/813
	115	4 1/2"	6×13	8×13		35°	4	1	6.2	THBJA-115T45-613/813



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T45 (1 3/4")




Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perferia No Size	Tipo		mm	in		
	Broca de botones, Retráctil									
	70	2 3/4"	5×10	8×11		30°	4	-	2.7	THBJA-70T45-510/811
	76	3"	5×11	8×12		35°	4	-	3.2	THBJA-76T45-511/812
	76	3"	5×11	8×12		35°	4	-	3.2	THBJA-76T45-511/812
	76	3"	5×11	8×11		35°	4	-	3.2	THBJA-76T45-511/811
	89	3 1/2"	5×13	8×13		35°	4	-	4.8	THBJA-89T45-513/813
	89	3 1/2"	5×13	8×13		40°	4	-	4.8	THBJA-89T45-513/813
	89	3 1/2"	5×12	8×12		35°	4	-	4.8	THBJA-89T45-512/812
	102	4"	6×12	8×13		35°	4	-	6.8	THBJA-102T45-612/813
	102	4"	6×12	8×13		35°	4	-	6.8	THBJA-102T45-612/813
	102	4"	6×13	8×13		35°	4	-	6.8	THBJA-102T45-613/813
Broca de botones, Retráctil, Cara plana										
	76	3"	4×11	8×11		35°	2	-	3.3	THBJA-76T45-411/811
	76	3"	4×11	8×11		40°	2	-	3.3	THBJA-76T45-411/811
	89	3 1/2"	4×13	8×13		40°	2	-	5	THBJA-89T45-413/813
	76	3"	6×10	8×11		35°	2	-	3.3	THBJA-76T45-610/811
	76	3"	6×10	8×11		40°	2	-	3.3	THBJA-76T45-610/811
	89	3 1/2"	6×11	8×12		35°	2	-	5	THBJA-89T45-611/812
	102	4"	6×12	8×13		35°	2	-	7	THBJA-102T45-612/813
	89	3 1/2"	7×11	9×11		35°	3	-	5	THBJA-89T45-711/911
	89	3 1/2"	7×11	9×12		35°	3	-	5	THBJA-89T45-711/912
	102	4"	7×12	9×12		35°	3	-	7	THBJA-102T45-712/912
	102	4"	7×12	9×13		35°	3	-	7	THBJA-102T45-712/913
Broca de botones, Retráctil, Drop center										
	76	3"	4×11	6×13		35°	3	1	3.3	THBJA-76T45-411/613
	76	3"	4×11	6×13		35°	3	1	3.3	THBJA-76T45-411/613
	89	3 1/2"	5×11	6×13		35°	3	1	5	THBJA-76T45-411/613
	76	3"	6×10	8×11		35°	4	1	3.3	THBJA-76T45-610/811-45-41
	76	3"	6×10	8×11		35°	4	1	3.3	THBJA-76T45-610/811-45-51
	89	3 1/2"	6×11	8×12		35°	4	1	5	THBJA-89T45-611/812-45-41
	102	4"	6×12	8×13		35°	4	1	7	THBJA-102T45-612/813-45-41
Tubo guía										
	76	3"	6×10	8×11		35°	4	-	2.5	THBJA-76T45-610/811-45-51
	89	3 1/2"	6×11	8×12		35°	4	-	3.2	THBJA-89T45-611/812-45-51

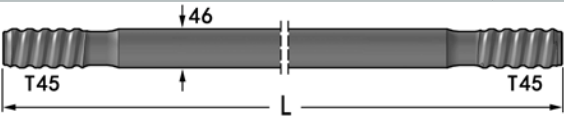

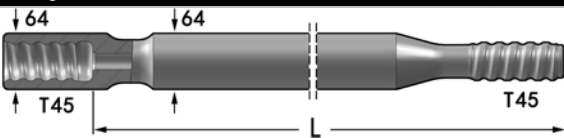
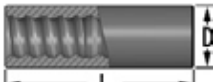
ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T45 (1 3/4")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
			Cara No Size	Periferia No Size	Tipo		mm	in		
	mm	in								
Broca rimadora, T45										
	127	5"	6×14	8×14		35°	4	-	6.9	THBJA-127T45-614/814-45-41
	152	6"	6×14	8×14		35°	4	-	9.2	THBJA-152T45-614/814-45-41

Barras	Longitud		Diámetro Broca		Peso	Código	
	mm	ft/in	mm	inch	kg		
Barra, T45-Redonda46-T45							
	3050	10'	45	1 3/4"	34.2	THRJA-45-3050	
	3660	12'	45	1 3/4"	41	THRJA-45-3660	
	4270	14'	45	1 3/4"	47.8	THRJA-45-4270	
Barra MF, T45-Redonda46-T45							
	1525	5'	45	1 3/4"	18.7	THRJA-T45/65-1525	
	1830	6'	45	1 3/4"	22.1	THRJA-T45/65-1830	
	3050	10'	45	1 3/4"	35.8	THRJA-45/65-3050	
	3660	12'	45	1 3/4"	42.6	THRJA-45/65-3660	
	4270	14'	45	1 3/4"	49.4	THRJA-T45/65-4270	
	6100	20'	45	1 3/4"	70	THRJA-T45/65-6100	
Tubo guía							
	1830	6'	64	2 1/2"	26	THRJA-45/64-1830	
	3660	12'	64	2 1/2"	49.9	THRJA-45/64-3660	
	3660	12'	76	3"	79.9	THRJA-45/76-3660	
Cople							
	T45	210	8 1/8"	63	2 15/32"	2.7	THCJA-T45-63-210
	T45	210	8 1/8"	66	2 5/8"	3.2	THCJA-T45-66-210

ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T51 (2")

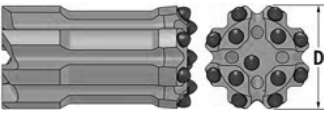



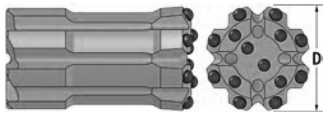




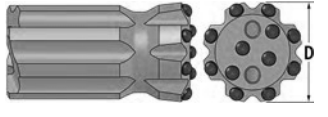

















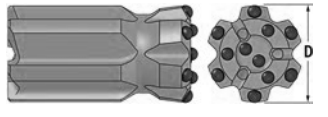













Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in		
Broca de botones										
	89	3 1/2"	5x13	8x13		35°	4	-	3.5	THBKA-89T51-513/813-45
	89	3 1/2"	5x13	8x13		40°	4	-	3.5	THBKA-89T51-513/813-45
	89	3 1/2"	5x12	8x12		35°	4	-	3.5	THBKA-89T51-512/812-45
	102	4"	6x12	8x13		35°	4	-	4.4	THBKA-102T51-612/813-45
	102	4"	6x12	8x13		40°	4	-	4.4	THBKA-102T51-612/813-45
	115	4 1/2"	6x13	8x13		35°	4	-	6	THBKA-115T51-613/813-45
	115	4 1/2"	6x13	8x14		35°	4	-	6	THBKA-115T51-613/814-45
Broca de botones, Cara plana										
	89	3 1/2"	4x13	8x13		40°	2	-	3.6	THBKA-89T51-413/813-45
	89	3 1/2"	4x13	8x13		40°	2	-	3.6	THBKA-89T51-413/813-45
	102	4"	4x14	8x14		40°	2	-	5	THBKA-102T51-414/814-45
	89	3 1/2"	6x11	8x12		35°	2	-	3.6	THBKA-89T51-611/812-45
	89	3 1/2"	6x11	8x12		40°	2	-	3.6	THBKA-89T51-611/812-45
	102	4"	6x12	8x13		35°	2	-	5	THBKA-102T51-612/813-45
	102	4"	6x12	8x13		40°	2	-	5	THBKA-102T51-612/813-45
	115	4 1/2"	6x13	8x13		35°	2	-	6	THBKA-115T51-613/813-45
	115	4 1/2"	6x13	8x14		35°	2	-	6	THBKA-15T51-613/814-45
	89	3 1/2"	7x11	9x11		35°	3	-	3.6	THBKA-89T51-711/911-45
	89	3 1/2"	7x11	9x12		35°	3	-	3.6	THBKA-89T51-711/912-45
	102	4"	7x12	9x12		35°	3	-	5	THBKA-102T51-712/912-45
	102	4"	7x12	9x13		35°	3	-	5	THBKA-102T51-712/913-45
	115	4 1/2"	7x13	9x13		35°	3	-	6	THBKA-115T51-713/913-45
	115	4 1/2"	7x13	9x14		35°	3	-	6	THBKA-115T51-713/914-45
Broca de botones, Drop center										
	89	3 1/2"	5x11	6x13		35°	3	1	3.5	THBKA-89T51-511/613-45
	89	3 1/2"	5x11	6x13		35°	3	1	3.5	THBKA-89T51-511/613-45
	102	4"	5x13	6x14		35°	3	1	5	THBKA-102T51-513/614-45
	102	4"	5x13	6x14		35°	3	1	5	THBKA-102T51-513/614-45
	89	3 1/2"	6x11	8x12		35°	4	1	3.6	THBKA-89T51-611/812-45
	89	3 1/2"	6x11	8x12		40°	4	1	3.6	THBKA-89T51-611/812-45
	102	4"	6x12	8x13		35°	4	1	5	THBKA-102T51-612/813-45
	102	4"	6x12	8x13		40°	4	1	5	THBKA-102T51-612/813-45
	115	4 1/2"	6x13	8x13		35°	4	1	6	THBKA-115T51-613/813-45
	115	4 1/2"	6x13	8x14		35°	4	1	6	THBKA-115T51-613/814-45
	115	4 1/2"	6x13	8x14		40°	4	1	6	THBKA-115T51-613/814-45
	127	5"	7x14	8x14		35°	4	1	6.8	THBKA-127T51-613/814-45

ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T51 (2")




Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código	
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in			
Broca de botones Retractil											
	89	3 1/2"	5×13	8×13		35°	4	-	4.5	THBKA-89T51-513/813-45	
	89	3 1/2"	5×13	8×13		40°	4	-	4.5	THBKA-89T51-513/813-45	
	89	3 1/2"	5×12	8×12		35°	4	-	4.5	THBKA-89T51-512/812-45	
	102	4"	6×12	8×13		35°	4	-	6.2	THBKA-102T51-612/813-45	
	102	4"	6×12	8×13		40°	4	-	6.2	THBKA-102T51-612/813-45	
	115	4 1/2"	6×13	8×13		35°	4	-	8.4	THBKA-115T51-613/813-45	
	115	4 1/2"	6×13	8×14		35°	4	-	8.4	THBKA-115T51-613/814-45	
Broca de botones, Retrácil, Cara plana											
	89	3 1/2"	4×13	8×13		40°	2	-	5	THBKA-89T51-413/813-45	
	89	3 1/2"	4×13	8×13		40°	2	-	5	THBKA-89T51-413/813-45	
	102	4"	4×14	8×14		40°	2	-	7	THBKA-102T51-414/814-45	
	89	3 1/2"	6×11	8×12		35°	2	-	5	THBKA-89T51-611/812-45	
	89	3 1/2"	6×11	8×12		40°	2	-	5	THBKA-89T51-611/812-45	
	102	4"	6×12	8×13		35°	2	-	7	THBKA-102T51-612/813-45	
	102	4"	6×12	8×13		40°	2	-	7	THBKA-102T51-612/813-45	
	115	4 1/2"	6×13	8×13		35°	2	-	9.5	THBKA-115T51-613/813-45	
	115	4 1/2"	6×13	8×14		35°	2	-	9.5	THBKA-115T51-613/814-45	
	89	3 1/2"	7×11	9×11		35°	3	-	5	THBKA-89T51-711/911-45	
	89	3 1/2"	7×11	9×12		35°	3	-	5	THBKA-89T51-711/912-45	
	102	4"	7×12	9×12		35°	3	-	7	THBKA-102T51-712/912-45	
	102	4"	7×12	9×13		35°	3	-	7	THBKA-102T51-712/913-45	
	115	4 1/2"	7×13	9×13		35°	3	-	9.5	THBKA-115T51-713/913-45	
	115	4 1/2"	7×13	9×14		35°	3	-	9.5	THBKA-115T51-713/914-45	
Broca de botones, Retrácil, Drop center											
	89	3 1/2"	5×11	6×13		35°	3	1	5	THBKA-89T51-511/613-45	
	89	3 1/2"	5×11	6×13		35°	3	1	5	THBKA-89T51-511/613-45	
	102	4"	5×13	6×14		35°	3	1	7	THBKA-102T51-513/614-45	
	102	4"	5×13	6×14		35°	3	1	7	THBKA-102T51-513/614-45	
	89	3 1/2"	6×11	8×12		35°	4	1	5	THBKA-89T51-611/812-45	
	89	3 1/2"	6×11	8×12		40°	4	1	5	THBKA-89T51-611/812-45	
	102	4"	6×12	8×13		35°	4	1	7	THBKA-102T51-612/813-45	
	102	4"	6×12	8×13		40°	4	1	7	THBKA-102T51-612/813-45	
	115	4 1/2"	6×13	8×13		35°	4	1	9.5	THBKA-15T51-613/813-45	
	115	4 1/2"	6×13	8×14		35°	4	1	9.5	THBKA-115T51-613/814-45	
	115	4 1/2"	6×13	8×14		40°	4	1	9.5	THBKA-115T51-613/814-45	
	127	5"	7×14	8×14		35°	4	1	11.5	THBKA-127T51-714/814-45	


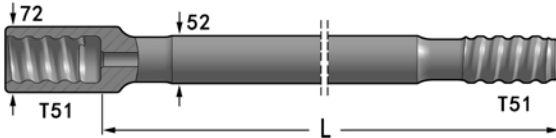
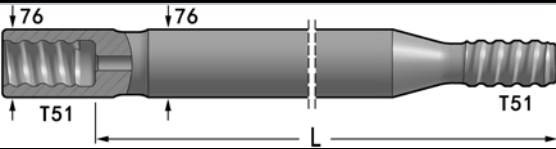
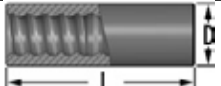
ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T51 (2")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in		
Broca rimadora, T51										
	127	5"	6×14	8×14		35°	4	-	8	THBKA-127T51-614/814-45
	152	6"	6×14	8×14		35°	4	-	11	THBKA-152T51-614/814-45

Barras	Longitud		Diámetro Broca		Peso kg	Código	
	mm	ft/in	mm	inch			
Barra T51-Redonda52-T51							
	3660	12'	51	2"	50.9	THRKA-T51-3660	
	4270	14'	51	2"	59.4	THRKA-T51-4270	
	6100	20'	51	2"	84.8	THRKA-T51-6100	
Barra MF, T51-Redonda52-T51							
	1525	5'	51	2"	23.8	THRKA-T51/72-1525	
	1830	6'	51	2"	28.1	THRKA-T51/72-1830	
	3050	10'	51	2"	45	THRKA-T51/72-3050	
	3660	12'	51	2"	53.5	THRKA-T51/72-3660	
	4270	14'	51	2"	62	THRKA-T51/72-4270	
	6100	20'	51	2"	87.4	THRKA-T51/72-6100	
Tubo guía							
	1830	6'	76	3"	40	THRKA-T51/76-1830	
	3660	12'	76	3"	79.1	THRKA-T51/76-3660	
	3660	12'	87	3 1/2"	90.9	THRKA-T51/87-3660	
Cople							
	T51	235	8 7/8"	72	2 7/8"	4	THCKA-T51-72-235
	T51	235	8 7/8"	77	3 1/32"	4.6	THCKA-T51-77-235

ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

T60 (2 3/8")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perforia No Size	Tipo		mm	in		
Broca de botones										
	92	3 5/8"	6×12	8×14		35°	4	-	5.2	THBQA-92T60-612/814-45
	96	3 3/4"	6×12	8×14		35°	4	-	5.3	THBQA-96T60-612/814-4
	102	4"	6×13	8×13		35°	4	-	6.4	THBQA-102T60-613/813-45
	115	4 1/2"	6×13	8×14		35°	4	-	7.3	THBQA-115T60-613/814-45
	115	4 1/2"	6×13	8×14		35°	4	-	7.3	THBQA-115T60-613/814-45
	127	5"	7×14	8×16		35°	4	-	8.9	THBQA-127T60-714/816-45
	140	5 1/2"	7×16	8×16		35°	4	-	12.1	THBQA-140T60-716/816-45
	152	6"	7×16	8×16		35°	4	-	13.6	THBQA-152T60-716/816-45
Broca de botones, Retráctil										
	92	3 5/8"	6×12	8×14		35°	4	-	6.1	THBQA-92T60-612/814-45
	96	3 3/4"	6×12	8×14		35°	4	-	6.2	THBQA-96T60-612/814-45
	102	4"	6×13	8×13		35°	4	-	8	THBQA-102T60-613/813-45
	115	4 1/2"	6×13	8×14		35°	4	-	9.4	THBQA-115T60-613/814-45
	115	4 1/2"	6×13	8×14		35°	4	-	9.4	THBQA-115T60-613/814-45
	127	5"	7×14	8×16		35°	4	-	13.1	THBQA-127T60-714/816-45
	140	5 1/2"	7×16	8×16		35°	4	-	16.1	THBQA-140T60-716/816-45




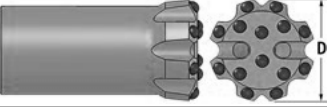




ACERO DE BARRENACIÓN

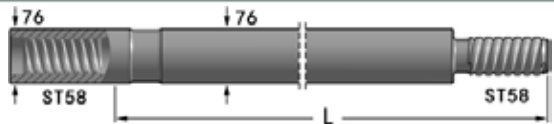
Barras	Longitud		Diámetro Broca		Peso kg	Código	
	mm	ft/in	mm	inch			
Barra MF, T60-Redonda60-T60							
	3660	12'	60	2 3/8"	70	THRQA-T60-3660	
	4270	14'	60	2 3/8"	82	THRQA-T60-4270	
	6100	20'	60	2 3/8"	116	THRQA-T60-6100	
Barra MF, T60-Redonda60-T60							
	4270	14'	60	2 3/8"	86.6	THRQA-T60/85-4270	
Cople							
	T60	315	1'3/8"	85	3 11/32"	7.9	THCQA-T60-85-315
	T60	315	1'3/8"	89	3 1/2"	8.2	THCQA-T60-89-315



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

ST58 (2 1/4")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Periferia No Size	Tipo		mm	in		
Broca de botones										
	89	3 1/2"	6×12	8×12		35°	4	-	4.1	THBLA-89ST58-612/812-45-41
	89	3 1/2"	6×12	8×12		35°	4	-	4.1	THBLA-89ST58-612/812-45-51
Broca de botones, Trabajo pesado										
	89	3 1/2"	6×12	8×14		35°	2	-	4.5	THBLA-89ST58-612/814-45-41
	89	3 1/2"	6×12	8×14		35°	2	-	4.5	THBLA-89ST58-612/814-45-51
Broca rimadora, ST58										
	152	6"	6×14	8×14		35°	4	-	13	THBLA-52ST58-614/814-45-41

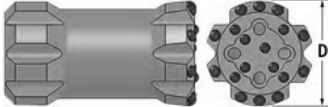



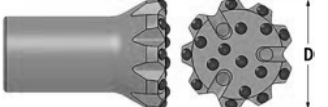

Tubos	Longitud		Diámetro Broca		Peso kg	Código
	mm	ft/in	mm	inch		
Tubo de perforación, ST58-Redondo76-ST58						
	1525	5'	76	3"	33.2	THRLA-ST58/76-1525-23
	1830	6'	76	3"	41	THRLA-ST58/76-1830-23

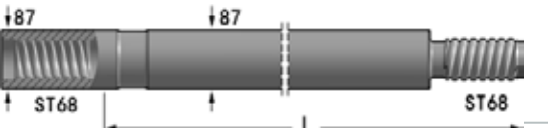
ACERO DE BARRENACIÓN



TOP HAMMER BANCOS Y BARRENACIÓN LARGA

ST68 (2 3/4")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca de botones										
	102	4"	8×12	10×12		35°	4	-	5.2	THBPA-102ST68-812/1012-45-51
	115	4 1/2"	8×14	10×14		35°	4	-	5.9	THBPA-115ST68-814/1014-45-51
Broca de botones										
	102	4"	6×13	8×14		35°	2	-	5.5	THBPA-102ST68-613/814-45-41
Broca de botones, Retráctil										
	102	4"	8×12	10×12		35°	4	-	6.2	THBPA-102ST68-812/1012-45-51
	115	4 1/2"	8×14	10×14		35°	4	-	8.4	THBPA-115ST68-814/1014-45-51
	102	4"	7×12	9×12		35°	3	-	6.2	THBPA-102ST68-712/912-45-41
	115	4 1/2"	7×13	9×13		35°	3	-	8.4	THBPA-115ST68-713/913-45-41
Broca collar, ST68										
	152	6"	8×16	9×16		35°	3	-	9.8	THBPA-152ST68-816/916-45-41
Broca rimadora, ST68										
	152	6"	6×14	8×14		35°	4	-	14	THBPA-152ST68-614/814-45-41

Tubos	Longitud		Diámetro Broca		Peso kg	Código
	mm	ft/in	mm	inch		
Tubo perforación, ST68-Redondo87-ST68						
	1525	5'	87	3 1/2"	40	THRPA-ST68/87-1525-23
	1830	6'	87	3 1/2"	47	THRPA-ST68/87-1830-23



Zancos Adaptadores hexagonales

ACERO DE BARRENACIÓN

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Para buje hexagonal 22 x 108 mm					
	R22	255	6	1.1	MPR4A-21H22-R22/108
	R23	255	6	1.1	MPR4A-21H22-R23/108
	R25	255	7	1.1	MPR4A-21H22-R25/108
Para buje hexagonal 25 x 108 mm					
	R23	255	6	1.3	MPR4A-21H25-R23/108
	R25	255	7	1.3	MPR4A-21H25-R25/108
Para buje hexagonal 25 x 159					
	R25	255	7	1.6	MPR4A-21H22-R25/159



ZANCOS ADAPTADORES

Sandvik

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
HL 300					
	R32	400	-	2.8	THZEA-32R32-0400
HL 300S					
	R28	245	-	2.8	THZEA-28R32-0245
	R32	245	-	2.8	THZEA-45R32-0245
L400, L410, L500, L510, L550					
	R32	380	10	2.2	THZGA-32R38-0380
HLR 438L and HLR 438T					
	R32	380	10	2.7	THZEA-38R32-0380
	T38	400	12	3.3	THZEA-38R32-0400
HLR 438LS, 438TS, HL 538, HL538L, L550S					
	R32	450	-	3.7	THZEA-38R32-0450
	R38	450	-	3.9	THZGA-38R38-0450
	T38	455	-	4	THZIA-38T38-0455
	T38	545	-	4.7	THZIA-38T38-0545
HL 500-38 / 510-38					
	R32	550	-	4.2	THZEA-38R32-0550
	T35	550	-	4.4	THZFA-38T35-0550
	T38	550	-	4.6	THZIA-38T38-0550
	R38	550	-	4.5	THZGA-38R38-0550
HL 500-45 / 510-45					
	T35	550	-	5.6	THZHA-45T35-0550
	T38	550	-	5.6	THZIA-45T38-0550
	T45	550	-	5.9	THZJA-45T45-0550
	R32	550	-	5.6	THZEA-45R32-0550



Sandvik

ACERO DE BARRENACIÓN

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
HL 500 S-38 / 510 S-38 / 510 B / 510 LH					
	R32	460	-	3.9	THZEA-38R32-0460
	R38	460	-	4.2	THZGA-38R38-0460
	T38	460	-	4	THZIA-38T38-0460
	R38	500	-	4.4	THZGA-38R38-0500
	T38	500	-	4.3	THZIA-38T38-0500
HL 500 F / 510 F					
	R32	350	-	3.9	THZEA-45R32-0350
HL 550 SUPER / 560 SUPER / 510 S-45					
	T35	460	-	4.9	THZHA-45T35-0460
	T35	550	-	5.6	THZHA-45T35-0550
	R38	500	-	5.2	THZGA-45R38-0500
	T38	500	-	5.3	THZIA-45T38-0500
HLX 1					
	R23	235	-	1	THZBA-28R23-0235
	R25	255	-	1.1	THZCA-28R25-0255
HLX 5 / HLX 5T					
	R32	500	-	5.1	THZEA-45R32-0500
	T35	500	-	5.3	THZHA-45T35-0500
	T38	500	-	5.3	THZIA-45T38-0500
	R38	500	-	5.3	THZGA-45R38-0500
	R32	575	-	5.4	THZEA-45R32-0575
	T35	575	-	5.6	THZHA-45T35-0575
	T38	575	-	5.9	THZIA-45T38-0575
	T45	575	-	6.2	THZJA-45T45-0575
HLX5 PE-45					
	R32	575	-	5.9	THZEA-45R32-0575
	T38	575	-	6.4	THZIA-45T38-0575



ZANCOS ADAPTADORES

Sandvik

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
HL 600-45 / 600 S-45					
	R32	600	-	5.7	THZEA-45R32-0600
	T38	600	-	5.9	THZIA-45T38-0600
	T45	600	-	6.3	THZJA-45T45-0600
	T38	525	-	5.5	THZIA-45T38-0525
	T45	525	-	5.8	THZJA-45T45-0525
HL 600-52					
	T45	650	-	7.6	THZJA-52T45-0650
	T51	650	-	8.1	THZKA-52T51-0650
HL 645					
	T38	600	-	6.6	THZIA-45T38-0600
	T45	600	-	6.9	THZJA-45T45-0600
HL 650-45 / 700-45 / 700T-45 / 710-45 / 800T-45					
	T38	600	-	1	THZJA-45T45-0600
	T45	600	-	1.1	THZJA-45T45-0600
HL 650-52, 700-52 / PE-52 / S-52, 710-52 / S-52 / PE-52 / SPE-52, 800T-52 / PE-52					
	T38	600	-	8.4	THZIA-52T38-0600
	T45	600	-	8.5	THZJA-52T45-0600
	T51	600	-	8.6	THZKA-52T51-0600
HL 850S					
	T45	670	-	9.1	THZJA-52T45-0670
	T51	670	-	9.6	THZKA-52T51-0670
HL 1000-52 / 1000 S-52					
	T45	670	-	9.7	THZJA-52T45-0670
	T51	670	-	10.1	THZKA-52T51-0670
	T45	590	-	8.9	THZJA-52T45-0590
	T51	590	-	9.3	THZKA-52T51-0590

ACERO DE BARRENACIÓN



ZANCOS ADAPTADORES

Sandvik

ACERO DE BARRENACIÓN

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
HL 1000-60					
	T51	670	-	11.9	THZKA-60T51-0670
	GT60	670	-	12.9	THZMA-60GT60-0670
HL 1000-80, Shoulder drive					
	GT60	670	-	20.8	THZMA-80GT60-0670
HL 1000 S-80 Tube drilling					
	ST58	635	-	17.4	THZLA-80ST58-0635
	ST68	640	-	16.9	THZPA-80ST68-0640
HL 1000 PE-52					
	T51	840	-	13.9	THZKA-52T51-0840
HL 1000 PE-65 / HL 1500 PE-65 / HL 1560 T-65					
	T51	760	-	15.9	THZKA-65T51-0760
	GT60	760	-	16.7	THZMA-65GT60-0760
HL 1500-52 / 1500 T-52					
	T51	710	-	11.2	THZKA-52T51-0710
HL 1500-60 / 1500 T-60					
	T51	760	-	13.3	THZKA-60T51-0760
	GT60	760	-	14.6	THZMA-60GT60-0760



ZANCOS ADAPTADORES

Sandvik

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
HL 1500 T-80, Shoulder drive					
	GT60	760	-	20.5	THZMA-80GT60-0760
HL 1500 S-80 Tube drilling					
	ST58	635	-	17	THZLA-80ST58-0635
	ST68	635	-	17	THZLA-80ST58-0635
HL 1500 SPE-90 Tube drilling					
	ST58	635	-	22	THZLA-90ST58-0635
	ST68	635	-	22.4	THZPA-90ST68-0635
	GT60	760	-	23.5	THZMA-90GT60-0635



Atlas Copco

ACERO DE BARRENACIÓN

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Atlas Copco BBC 43, 44, 45 and 100					
	R32	380	10	2	THZEA-38R32-0380
Atlas Copco BBC 51, 52, 54 and 120					
	R32	380	10	2.6	THZIA-38T38-0390
	T38	390	10	3	THZIA-44T38-0537
Atlas Copco BBE 57					
	T38	537	14	5.4	THZIA-38T38-0380
Atlas Copco COP 125, 130 and 131					
	T38	380	14	13.9	THZEA-32R32-0380
Atlas Copco COP 1032 HD					
	R32	340	-	3.3	THZEA-45R32-0340
	R38	340	-	4.1	THZGA-55R38-0340
Atlas Copco COP 1032					
	R32	550	-	5.1	THZEA-45R32-0550
	T35	550	-	5.1	THZHA-45T35-0550
	R38	550	-	5.3	THZGA-45R38-0550
	T38	550	-	5.3	THZIA-45T38-0550
Atlas Copco COP 1036/1038 HB					
	R32	500	-	4.1	THZEA-38R32-0500
	T38	500	-	4.5	THZIA-38T38-0500
	T45	500	-	5.1	THZJA-45T45-0500



ZANCOS ADAPTADORES

Atlas Copco

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Atlas Copco COP 1038 HD/1238					
	R32	485	-	4	THZEA-38R32-0485
	R38	485	-	4.2	THZGA-38R38-0485
	T38	485	-	4.2	THZIA-38T38-0485
Atlas Copco COP 1038 HL					
	R32	575	-	4.7	THZEA-38R32-0575
	T38	575	-	4.9	THZIA-38T38-0575
	T45	575	-	5.9	THZJA-45T45-0575
Atlas Copco COP 3038					
	T38	435	-	4	THZIA-38T38-0435
	T45	435	-	4.6	THZJA-45T45-0435
	T35	440	-	4.5	THZHA-45T35-0440
	T35	525	-	5	THZHA-45T35-0525
Atlas Copco COP 1238					
	R32	500	-	4.2	THZEA-38R32-0500
	T38	500	-	4.8	THZIA-38T38-0500
	R38	485	-	4.3	THZGA-38R38-0485
	T38	485	-	4.2	THZIA-38T38-0485
	T45	500	-	5.2	THZJA-45T45-0500
	R32	575	-	4.7	THZEA-38R32-0575
	T35	575	-	4.6	THZHA-38T35-0575
	T38	575	-	4.8	THZIA-38T38-0575
	T38	575	-	5.5	THZIA-45T38-0575
	T45	575	-	5.9	THZJA-45T45-0575

ACERO DE BARRENACIÓN



Atlas Copco

ACERO DE BARRENACIÓN

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Atlas Copco COP 1432, COP 1532, COP1440, COP1838 HD/ME					
	R32	435	-	3.8	THZEA-38R32-0435
	R38	435	-	3.9	THZGA-38R38-0435
	T35	435	-	3.8	THZHA-38T35-0435
	T38	435	-	3.8	THZIA-38T38-0435
	R32	525	-	4.1	THZEA-38R32-0525
	T35	525	-	4.2	THZHA-38T35-0525
	T38	525	-	4.4	THZIA-38T38-0525
Atlas Copco COP 1432 Female					
	R32	341	-	4.3	THZEA-55R32-0341
	R38	341	-	4.7	THZGA-55R38-0341
Atlas Copco COP 1132					
	R32	500	-	3.1	THZEA-35R32-0500
Atlas Copco COP 1550, COP 1838 ME/ HE Atlas Copco COP 1550 EX, COP 1838 EX T38 525 - 6.1					
	T38	525	-	6.1	THZIA-52T38-0525
	T45	525	-	6.4	THZJA-52T45-0525
	T51	525	-	6.8	THZKA-52T51-0525
Atlas Copco COP 1550 EX, COP 1838 EX					
	T38	730	-	9.9	THZIA-60T38-0730
	T45	730	-	10.3	THZJA-60T45-0730
Atlas Copco COP 1840 HE, COP 1850					
	T35	565	-	6.6	THZHA-52T35-0565
	T38	565	-	6.7	THZIA-52T38-0565
	T45	565	-	6.9	THZJA-52T45-0565
	T51	565	-	7.2	THZKA-52T51-0565



Atlas Copco y Boart

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Atlas Copco COP 2150, COP 2550					
	T51	770	-	9.9	THZKA-52T51-0770
Atlas Copco COP 2160, COP 2560					
	T51	770	-	11	THZKA-60T51-0770
Atlas Copco COP 2160 EX					
	T45	770	-	13.2	THZJA-63T45-0770
	T51	770	-	13.3	THZKA-63T51-0770
Atlas Copco COP 4050 EX					
	ST68	805	-	21.7	THZPA-70ST68-0805
Atlas Copco COP 4050 MUX					
	ST68	835	-	26.9	THZPA-90ST68-0835
Boart HD 125, HD 150, HD 160					
	R38	495	-	5.5	THZGA-45R38-0495
	T38	495	-	5.5	THZIA-45T38-0495



ZANCOS ADAPTADORES

Furukawa

ACERO DE BARRENACIÓN

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Furukawa M 120 and PD 200					
	R32	330	14	3	THZEA-44R32-0330
	T38	380	14	3.6	THZIA-44T38-0380
	T38	446	14	4	THZIA-44T38-0446
Furukawa PD 200R					
	T38	484	14	5.2	THZIA-44T38-0484
	T45	484	14	5.4	THZJA-44T45-0484
Furukawa HD 260, HD 300					
	T38	655	16	6.3	THZIA-45T38-0655
	T45	655	16	6.6	THZJA-45T45-0655
Furukawa HD 609					
	T38	620	-	6.1	THZIA-45T38-0620
	T38	690	-	6.4	THZIA-45T38-0690
	T45	620	-	6.4	THZJA-45T45-0620
Furukawa HD 612					
	T45	710	-	8.9	THZJA-51T45-0710
Furukawa HD 709					
	T38	620	-	6.4	THZIA-45T38-0620
Furukawa HD 712					
	T45	788	-	9.6	THZJA-51T45-0788



Gardner-Denver, Ingersoll-Rand y Montabert

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Gardner-Denver PR 123					
	R32	330	14	3	THZEA-44R32-0330
	R32	380	14	4.1	THZEA-44R32-0380
	R38	350	14	3.5	THZGA-44R38-0350
	T38	446	14	4	THZIA-44T38-0446
	T38	380	14	3.6	THZIA-44T38-0380
Ingersoll-Rand URD 475, URD 550, VL120, EVL 130, VL140 and F16					
	R32	330	14	3	THZEA-44R32-0330
	R32	380	14	4.1	THZEA-44R32-0380
	T38	380	14	3.6	THZIA-44T38-0380
	T38	446	14	4	THZIA-44T38-0446
Ingersoll-Rand YH 65, YH 80					
	T38	495	19	5.4	THZIA-45T38-0495
	T45	500	19	5.6	THZJA-45T45-0500
Ingersoll-Rand YH 80 A					
	T45	495	19	6.1	THZJA-51T45-0495
Ingersoll-Rand YH 65 RP, YH 70 RP, YH 75 RP, YH 80 RP					
	T45	700	19	7.9	THZJA-45T45-0700
Montabert HC40					
	R32	447	-	3.4	THZEA-38R32-0447
	R38	447	-	3.9	THZGA-38R38-0447
Montabert HC20 (female)					
	R32	201	-		THZEA-45R32-0201



Montabert

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
Montabert HC40 (female)					
	R32	270	-	2.9	THZEA-52R32-0270
	R38	320	-	4.1	THZGA-55R38-0320
Montabert HC 80, HC 90, HC 105					
	R38	440	-	3.9	THZGA-38R38-0440
	T38	440	-	3.9	THZIA-38T38-0440
	T38	500	-	4.1	THZIA-38T38-0500
Montabert H 100					
	T38	537	14	6.1	THZIA-45T38-0537
Montabert HC 80R, HC 105R, HC 107R, HC 108R, HC 109R					
	T38	670	-	7.3	THZIA-45T38-0670
	T45	770	-	8	THZJA-45T45-0770
Montabert HC 120, HC 150					
	T45	490	-	5.6	THZJA-45T45-0490
Montabert HC 120R, HC 150R, HC 155R, HC 158R					
	T51	670	-	8.6	THZKA-51T51-0670
Montabert HC 200A					
	T51	840	-	16.1	THZKA-60T51-0840
	GT60	840	-	16.9	THZMA-60GT60-0840

ACERO DE BARRENACIÓN



ZANCOS ADAPTADORES

SIG

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
SIG HBM 50, 100 and 120					
	R32	340	-	3.3	THZEA-45R32-0340
SIG HBM 100 and 120					
	R38	340	-	4.1	THZGA-55R38-0340
SIG HBM 50, 100 and 120					
	R32	550	14	4.8	THZEA-45R32-0550
SIG 101					
	R32	500	-	4.1	THZEA-38R32-0500



Otros

	Rosca	Largo (mm)	Agujero de barrido (mm)	Peso kg	CÓDIGO
	HL54	1180	-	35.1	THZQA-70HL54-1180
	HL64	1180	-	35.6	THZQA-70HL64-1180

	HL64	1280	-	35.3	THZQA-67HL64-1280
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	R32	410	-	3.1	THZEA-35R32-410
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	T51	913	-	13.8	THZKA-51T51-0913
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	T45	807	-	14.5	THZJA-60T45-0807
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ACERO DE BARRENACIÓN



HERRAMIENTAS AUXILIARES

Adaptadores

	Rosca		Largo		Diámetro		Llave plana	Peso	CÓDIGO
	Female	Male	mm	inch	mm	inch	mm	kg	
Adaptador de broca									
	R25	R32	185	7 1/4"	45	1 3/4"	38	1.3	THACA-R25/R32-45-185
	R28	R32	230	9 1/16"	40	1 37/64"	38	1.4	THADA-R28/R32-40-230
	R32	T38	225	8 55/64"	45	1 3/4"	38	1.9	THAEA-R32/T38-45-225
	R32	R38	225	8 55/64"	45	1 3/4"	38	1.8	THAEA-R32/R38-45-225
	T35	T38	250	9 27/32"	48	1 7/8"	38	1.9	THAHA-T35/T38-48-250
	R38	R32	245	9 21/32"	55	2 5/32"	44.5	2.3	THAGA-R38/R32-55-245
	R38	T38	245	9 21/32"	55	2 5/32"	44.5	2.4	THAGA-R38/T38-55-245
	T38	R32	270	10 41/64"	57	2 1/4"	44.5	2.6	THAIA-T38/R32-57-270
	T38	R38	280	11 1/32"	57	2 1/4"	44.5	3.2	THAIA-T38/R38-57-280
	T38	T45	285	11 7/32"	57	2 1/4"	44.5	3.3	THAIA-T38/T45-57-285
	T45	T38	265	10 7/16"	63	2 31/64"	44.5	2.9	THAJA-T45/T38-63-265
	T45	T51	285	11 7/32"	63	2 31/64"	44.5	3.7	THAJA-T45/T51-63-285
	T51	T45	285	11 7/32"	71	2 51/64"	44.5	4	THAKA-T51/T45-71-285

	Rosca		Largo		Diámetro		Peso	CÓDIGO DDT
	F1	F2	mm	inch	mm	inch	kg	

Cople reductor								
	R32	R25	160	6 1/4"	43	1 3/4"	1.2	THAEA-R32/R25-43-160
	R32	R28	165	6 1/2"	44	1 3/4"	1.3	THAEA-R32/R28-44-165
	R38	R32	170	6 3/4"	55	2 5/32"	2	THAGA-R38/R32-55-170
	T38	R32	170	6 3/4"	55	2 5/32"	2	THAIA-T38/R32-55-170
	T38	R38	185	7 9/32"	55	2 5/32"	2.1	THAIA-T38/R38-55-185
	T38	T45	200	7 7/8"	58	2 9/32"	2.6	THAIA-T38/T45-58-200
	T45	T51	225	8 7/8"	72	2 27/32"	4	THAJA-T45/T51-72-200

	Aplicación	Largo		Diámetro		Peso	CÓDIGO DDT
		mm	inch	mm	inch	kg	

Llaves para aceros de perforación integrales y varillas de vástago							
	Hex22	600	1' 11 5/8"	22	7/8"	3.1	THLQA-H22/15-600

Llave para barras							
	Hex22	300	1' 11 3/16 "	22	7/8"	3	THLQA-H22/20-600
	Hex25"Round32	300	1' 11 3/16 "	25	1"	3	THLQA-H25/20-600
	Hex32"Round39	370	1' 29/16 "	32	1 1/4"	3.5	THLQA-H32/20-370
	Round46	370	1' 29/16 "	38	1 1/2"	3.5	THLQA-H38/20-370
	Round52	370	1' 29/16 "	45	1 49/64"	3.7	THLQA-H45/20-370
	DTH	380	1' 2 31/32 "	57	2 1/4"	5	THLQA-H57/20-380
	DTH	380	1' 2 31/32 "	65	2 7/12"	5.2	THLQA-H65/20-380


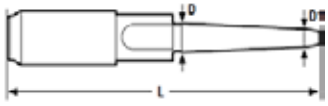
ACERO DE BARRENACIÓN



HERRAMIENTAS AUXILIARES

Auxiliares

	Aplicación	Largo		Diámetro		Peso	CÓDIGO DDT
		mm	inch	mm	inch	kg	
Herramienta para Hex 22 and Hex 25							
	Hex22	-	-	-	-	3.1	THHQA-H22/44-160
Herramientas de desmontaje para brocas cónicas							
	Hex22	-	-	-	-	3.1	THHQA-H22/44-160
	Hex25	-	-	-	-	3.1	THHQA-H22/44-160

Herramientas de Terminado	Aplicación	Diámetro		Longitud	Rosca	Peso	CÓDIGO DDT
		D1	D2	L		kg	
Mangas							
	R32round/Hex.rods/coupling	49	47.2	300	R32	1.9	THHEA-49/R32-300
	R38 round rods/coupling	60	58	353	R38	3.9	THHEA-60/R38-353
	T35 round rods/coupling	52	50	284	T35	1.7	THHEA-52/T35-284
	T38 round rods/coupling/MF-rods	61	58.2	353	T38	3.9	THHEA-61/T38-353
	T45 round rods/coupling/MF-rods	71	68	393	T45	6	THHEA-71/T45-393
	T51 round rods/coupling/MF-rods	82	78.2	440	T51	8.4	THHEA-82/T51-440
	GT60 rods	92	87.5	450	GT60	10.2	THHEA-92/T60-450
	GT60 rods	89	84.5	450	GT60	9.9	THHEA-89/T60-450
	ST68 tubes Ø87	102	92	410	ST68	10.9	THHEA-92/T60-450
Mangas							
	R32 rods	19.4	4	280	R32	2	THHEA-4/R32-280
	T38 rods	19.4	8	237	T38	2.5	THHEA-8/T38-237
	T45 rods	25	8	275	T45	4	THHEA-8/T45-275
	T51 rods	27	15	285	T51	5	THHEA-15/T51-285
	ST58 tubes Ø76	57	24	500	ST58	10	THHEA-24/ST58-500
	ST68 tubes Ø87	71	32	541	ST68	12	THHEA-32/ST68-547



ACERO DE FUNDICIÓN PARA ROSCAS

R32 (1 1/4")

Brocas	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca tipo cruz Acero										
	55	2 1/8"	-	-	-	-	1	4	0.6	THBEA-55R32
	60	2 3/8"	-	-	-	-	1	4	0.7	THBEA-60R32
	65	2 1/2"	-	-	-	-	1	4	0.9	THBEA-65R32
	70	2 3/4"	-	-	-	-	1	4	1.3	THBEA-70R32
Broca tipo cruz										
	55	2 1/8"	-	-	-	-	1	2	0.6	THBEA-55R32-10/8-42
	60	2 3/8"	-	-	-	-	1	2	0.7	THBEA-60R32-10/8-42
	65	2 1/2"	-	-	-	-	1	2	0.9	THBEA-65R32-10/8-42
	70	2 3/4"	-	-	-	-	1	2	1.3	THBEA-70R32-10/8-42
	80	3 1/7"	-	-	-	-	1	2	1.7	THBEA-80R32-10/8-42
Broca de botones										
	50	2"	2×10	4×10		35°	2	-	0.6	THBEA-50R32-210/410-42
	55	2"	2×10	4×10		35°	2	-	0.7	THBEA-55R32-210/410-42
	60	2 1/4"	2×10	4×10		35°	2	-	0.8	THBEA-60R32-210/410-42
	65	2 1/2"	2×10	4×10		35°	2	-	1	THBEA-65R32-210/410-42
	70	2 3/4"	2×10	4×10		35°	2	-	1.4	THBEA-70R32-210/410-42

ACERO DE BARRENACIÓN

Barras	Largo		Diámetro		Peso kg	Código
	mm	inch	mm	inch		
Barra, R32-Redonda32-R32						
	3000	9'10"	32	1 1/4"	17.7	THREA-R32-3000
	3500	11'6"	32	1 1/4"	20.7	THREA-R32-3500
	4000	13'2"	32	1 1/4"	23.6	THREA-R32-4000
	4500	14'9"	32	1 1/4"	26.6	THREA-R32-4500
Barra, Redonda39-R32						
	4000	13'2"	39	1 1/2"	32.4	THREA-R32/39-4000
	4500	14'9"	39	1 1/2"	36.5	THREA-R32/39-4500
	5000	16'5"	39	1 1/2"	40.5	THREA-R32/39-5000
	6000	19'8"	39	1 1/2"	48.6	THREA-R32/39-6000
Barra, R38-Redonda39-R32						
	4000	13'2"	39	1 1/2"	32.4	THREA-R32/R38-4000
	4500	14'9"	39	1 1/2"	36.5	THREA-R32/R38-4500
	5000	16'5"	39	1 1/2"	40.5	THREA-R32/R38-5000
	6000	19'8"	39	1 1/2"	48.6	THREA-R32/R38-6000



ACERO DE FUNDICIÓN PARA ROSCAS

R38 (1 1/2")

Broca perforadora	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca tipo cruz										
	60	2 3/8"	-	-	-	-	1	2	1.2	THBGA-60R38-10/8-42
	65	2 1/2"	-	-	-	-	1	2	1.4	THBGA-65R38-10/8-42
	70	2 3/4"	-	-	-	-	1	2	1.5	THBGA-70R38-10/8-42
	80	3 1/7"	-	-	-	-	1	2	1.7	THBGA-80R38-10/9-42
Broca de botones										
	55	2"	2x10	4x10		35°	2	-	1	THBGA-55R38-210/410-42
	60	2 1/4"	2x10	4x10		35°	2	-	1.2	THBGA-55R38-210/410-42
	65	2 1/2"	2x10	4x10		35°	2	-	1.4	THBGA-55R38-210/410-42
	70	2 3/4"	2x10	4x10		35°	2	-	1.5	THBGA-55R38-210/410-42

Barras	Largo		Diámetro		Peso kg	Código
	mm	inch	mm	inch		
Barra perforadora, R38-Redonda39-R38						
	4000	13'2"	39	1 1/2"	32.4	THRGA-R38-4000
	4500	14'9"	39	1 1/2"	36.5	THRGA-R38-4500
	5000	16'5"	39	1 1/2"	40.5	THRGA-R38-5000
	6000	19'8"	39	1 1/2"	48.6	THRGA-R38-6000
Barra perforadora, Redonda39-R38						
	4000	13'2"	39	1 1/2"	32.4	THRGA-R38/39-4000
	4500	14'9"	39	1 1/2"	36.5	THRGA-R38/39-4500
	5000	16'5"	39	1 1/2"	40.5	THRGA-R38/39-5000
	6000	19'8"	39	1 1/2"	48.6	THRGA-R38/39-6000

R51(2")	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca tipo cruz, R51										
	80	3 1/7"	-	-	-	-	1	2	1.7	THBQA-80R51-10/9-42
	90	3 1/2"	-	-	-	-	1	2	1.7	THBQA-90R51-10/9-42
	100	3 3/4"	-	-	-	-	1	2	1.9	THBQA-100R51-10/9-42

Barra perforadora, R51-Redonda52-R51	Largo		Diámetro		Peso kg	Código
	mm	inch	mm	inch		
	4000	13'2"	52	2"	44	THRQA-R51-4000
	4500	14'9"	52	2"	49	THRQA-R51-4500
	5000	16'5"	52	2"	55	THRQA-R51-5000
	6000	19'8"	52	2"	66	THRQA-R51-6000



ACERO DE FUNDICIÓN PARA ROSCAS

T38 (1 1/2")

Broca perforadora	Longitud		Botones, mm			Ángulo	Agujero de Barrido		Peso kg	Código
	mm	in	Cara No Size	Perfieria No Size	Tipo		mm	in		
Broca tipo cruz de acero										
	55	2 1/8"	-	-	-	-	1	4	0.6	THBIA-55T38
	60	2 3/8"	-	-	-	-	1	4	0.7	THBIA-60T38
	65	2 1/2"	-	-	-	-	1	4	0.9	THBIA-65T38
	70	2 3/4"	-	-	-	-	1	4	1.3	THBIA-70T38
Broca tipo cruz										
	60	2 3/8"	-	-	-	-	1	2	1.2	THBIA-60T38-10/8-42
	65	2 1/2"	-	-	-	-	1	2	1.4	THBIA-65T38-10/8-42
	70	2 3/4"	-	-	-	-	1	2	1.5	THBIA-70T38-10/8-42
	80	3 1/7"	-	-	-	-	1	2	1.7	THBIA-80T38-10/9-42
	90	3 1/2"	-	-	-	-	1	2	1.9	THBIA-90T38-10/9-42
Broca de botones										
	60	2 1/4"	2x10	4x10		35°	2	-	1.2	THBIA-60T38-210/410-42
	65	2 1/2"	2x10	4x10		35°	2	-	1.6	THBIA-65T38-210/410-42
	70	2 3/4"	2x10	4x10		35°	2	-	1.6	THBIA-70T38-210/410-42
	80	3 1/7"	2x10	4x10		35°	2	-	1.6	THBIA-80T38-210/410-42

Barras	Largo		Diámetro		Peso kg	Código
	mm	inch	mm	inch		
Barra perforadora, T38-Redonda39-T38						
	4000	13'2"	39	1 1/2"	32.4	THRIA-T38-4000
	4500	14'9"	39	1 1/2"	36.5	THRIA-T38-4500
	5000	16'5"	39	1 1/2"	40.5	THRIA-T38-5000
	6000	19'8"	39	1 1/2"	48.6	THRIA-T38-6000
Barra perforadora, Redonda39-T38						
	4000	13'2"	39	1 1/2"	32.4	THRIA-T38/39-4000
	4500	14'9"	39	1 1/2"	36.5	THRIA-T38/39-4500
	5000	16'5"	39	1 1/2"	40.5	THRIA-T38/39-5000
	6000	19'8"	39	1 1/2"	48.6	THRIAT38/39-6000
Barra perforadora, T38-Redonda42-T38						
	4000	13'2"	42	1 21/32"	32.4	THRIA-T38-4000
	4255	14'1"	42	1 21/32"	34.5	THRIA-T38-4255
	6000	19'8"	42	1 21/32"	48.6	THRIA-T38-6000
	5040	16'7"	42	1 21/32"	40.8	THRIA-T38-5040