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Extension drilling tools

## Extension drilling tools

### INSERTED CARBIDE TYPES

Hemispherical  
(Dome / spherical)



Ballistic



Parabolic  
(Semi ballistic)



Conical



HEM is hemispherical button which is applied to strength-multipurpose best suitable to hard rock.  
BAL is ballistic button which is applied to strength-fast penetration best suited to soft rock.  
PAR is parabolic button which is applied to Strength - fast penetration best suited to medium ground  
CON is conical button which is applied for strength – fast penetration, suited for all non-abrasive ground types



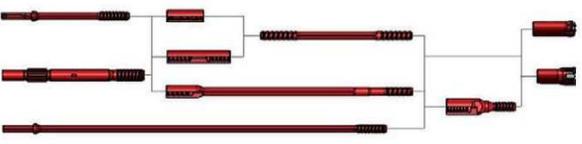
4. **Drop center / Standard skirt:** Ideal for high abrasive rock. Available with dome or parabolic inserted carbides; fast penetration rate and good flushing
5. **Drop center / Retrac skirt:** To be used in medium-hard and fissured rock formations, better hole deviation control. Ballistic or Parabolic inserted carbides for excellent penetration rate and good flushing.
6. **Flat face / Retrac skirt:** To be used in medium-hard to hard formations. Less abrasive fracture formations. Excellent control over hole deviation; Fast penetration, straight and quality hole

### FACE AND SKIRT DESIGN



1. **Flat face / Standard skirt:** General purpose bit for medium-hard to hard condition hardness F8-14. Hemispherical or parabolic inserted carbide are available. Straight hole application and long service life.
2. **Flat face / Standard skirt:** Ideal for high abrasive hard rock hardness over F14. Dome or parabolic inserted carbides are available. Good flushing and productivity
3. **Drop center / Standard skirt:** Ideal for hardness less F8, non-abrasive or broken ground condition. Parabolic or ballistic inserted carbides are available. Excellent flushing with extra flushing groove extremely good penetration rate in soft rock.

## Extension drilling tools



**R 25 (1'')**

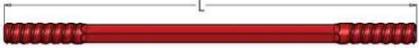
Bit	Carbide dimension				D		Weight [kg]	Code No.		
	Carbide design	Gauge		Front						
		[No.]	[mm]	[No.]	[mm]					
Button bit 	HEM	5	7	2	7	33	1 5/16"	0.33	14484	
	BAL	5	7	2	7	33	1 5/16"	0.33	14461	
	HEM	5	8	2	7	35	1 3/8"	0.44	14474	
	BAL	5	8	2	7	35	1 3/8"	0.44	14464	
	HEM	5	9	2	7	38	1 1/2"	0.56	14461	
	BAL	5	9	2	7	38	1 1/2"	0.56	14475	
	HEM	5	9	2	9	41	1 5/8"	0.61	14467	
	BAL	5	9	2	9	41	1 5/8"	0.61	14467	
	HEM	5	9.5	2	8	43	1 11/16"	0.63	14462	
	BAL	5	9.5	2	8	43	1 11/16"	0.63	14499	
	HEM	5	10	2	9	45	1 3/4"	0.78	14460	
	BAL	5	10	2	9	45	1 3/4"	0.78	14460	
	HEM	5	11	2	8	48	1 7/8"	0.82	14432	
	BAL	5	11	2	8	48	1 7/8"	0.82	14432	
	HEM	5	11	2	10	51	2"	0.88	14432	
	BAL	5	11	2	10	51	2"	0.88	14432	
	B2	HEM	6	9	3	8	45	1 3/4"	0.78	14461
		BAL	6	9	3	8	45	1 3/4"	0.78	14461
HEM		6	9	3	9	48	1 7/8"	0.89	14462	
BAL		6	9	3	9	48	1 7/8"	0.89	14462	
HEM		6	10	3	9.5	51	2"	1.00	14476	
BAL		6	10	3	9.5	51	2"	1.00	14462	
B3	HEM	6	10	3	10	57	2 1/4"	1.31	14462	
	BAL	6	10	3	10	57	2 1/4"	1.31	14463	
	Width		Height							
	W [mm]		H [mm]							
Cross design multi use										

## Extension drilling tools

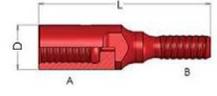
**R 25 (1'')**

Extension rod	D		L		Weight [kg]	Code No.		
	[mm]	[in]	[mm]	[ft in]				
Hex 25 / Ø 8.6 mm (1" / Ø 11/32") 			610	2'	2.22	24719		
			915	3'	3.55	21494		
			1220	4'	4.50	21494		
			1525	5'	5.70	24156		
			1830	6'	6.90	21494		
			2435	8'	9.20	21494		
			3050	10'	11.60	21492		
		3660	12'	13.90	24156			
MF-rod Hex 25 / Ø 8.6 mm (1" / Ø 11/32") 	35	1 3/8"	610	2'	2.50	24377		
	35	1 3/8"	1220	4'	4.90	24377		
	35	1 3/8"	1525	5'	6.10	24378		
	35	1 3/8"	1830	6'	7.30	24379		
	35	1 3/8"	2435	8'	9.60	24379		
	35	1 3/8"	3050	10'	12.00	24379		
Coupling	D		L		Weight [kg]	Code No.		
	[mm]	[in]	[mm]	[in]				
	35	1 3/8"	150	6"	0.60	31333		
Full bridge 	35	1 3/8"	200	7 7/8"	1.20	31723		
	Coupling adapter		Thread					
		A	B					
	R22	R25	35	1 3/8"	142	5 19/32"	0.60	34166
	R25	R28	38	1 1/2"	150	6"	0.60	34166
	R25	R32	44	1 47/64"	150	6"	1.00	31144
Full bridge 	R22	R25	35	1 3/8"	165	6 1/2"	0.80	34850
	R25	R28	38	1 1/2"	170	6 11/16"	1.00	34850
	R25	R32	44	1 47/64"	200	7 7/8"	1.50	31723

## Extension drilling tools

<b>R 28 (1 1/8")</b>										
Bit	Carbide dimension				D		Weight	Code No.		
	Carbide design	Gauge		Front		[mm]			[in]	[kg]
		[No.]	[mm]	[No.]	[mm]					
Button bit 	HEM	5	8	2	7	36	1 13/32"	0.42	14479	
	BAL	5	8	2	7	36	1 13/32"	0.42	14499	
	HEM	5	8	2	8	38	1 1/2"	0.48	14466	
	BAL	5	9	2	7	38	1 1/2"	0.48	14472	
	HEM	5	9	2	9	41	1 5/8"	0.56	14462	
	BAL	5	9	2	9	41	1 5/8"	0.56	14465	
	HEM	5	9.5	2	8	43	1 11/16"	0.68	14499	
	BAL	5	9.5	2	8	43	1 11/16"	0.68	14466	
	HEM	5	10	2	9	45	1 3/4"	0.72	14472	
	BAL	5	10	2	9	45	1 3/4"	0.72	14456	
B2	HEM	6	9	3	8	45	1 3/4"	0.72	14456	
	BAL	6	9	3	8	45	1 3/4"	0.72	14466	
	HEM	6	9	3	9	48	1 7/8"	0.89	14468	
	BAL	6	9	3	9	48	1 7/8"	0.89	14469	
	HEM	6	10	3	9.5	51	2"	0.97	14475	
	BAL	6	10	3	9.5	51	2"	0.97	14469	
B3	Width		Height							
	W [mm]		H [mm]							
	8		14							
Cross design multi use	8		14		38		1 1/2"		0.43	
	8		14		41		1 5/8"		0.45	
	8		14		45		1 3/4"		0.65	
Extension rod					L		Weight	Code No.		
					[mm]	[ft in]			[kg]	
Hex 28 / Ø 8.8 mm (1 1/8" / Ø 11/32")					610	2'	3.05	24723		
					915	3'	4.30	24723		
					1220	4'	5.80	24723		
					1525	5'	7.40	24715		
					1800	6'	9.00	24730		
					2435	8'	11.80	24726		
					3050	10'	14.80	24709		
					3660	12'	17.90	24729		

## Extension drilling tools

<b>R 28 (1 1/8")</b>										
Extension rod	D		L		Weight	Code No.				
	[mm]	[in]	[mm]	[ft in]			[kg]			
MF-rod Hex 28 / Ø 8.8 mm (1 1/8" / Ø 11/32") 	39	1 1/2"	1525	5'	8.10	24706				
	39	1 1/2"	3050	10'	15.50	24389				
	39	1 1/2"	3660	12'	18.60	24389				
Coupling	D		L		Weight	Code No.				
	[mm]	[in]	[mm]	[in]			[kg]			
	39	1 1/2"	150	6"	0.60	34166				
Coupling adapter	Thread									
	A	B								
	R25	R28	38	1 1/2"	150	6"	0.60	34166		
	R28	R32	44	1 47/64"	150	6"	1.05	34860		
Full bridge	Thread									
	A	B								
	R25	R28	38	1 1/2"	170	6 11/16"	1.00	34850		
	R28	R32	44	1 47/64"	170	6 11/16"	1.30	34850		
Bit adapter	Thread									
	A	B								
	R25	R28	44	1 47/64"	185	7 9/32"	1.25	31142		
	R28	R25	44	1 47/64"	185	7 9/32"	1.15	34869		
	R28	R32	44	1 47/64"	185	7 9/32"	1.30	31142		

## Extension drilling tools

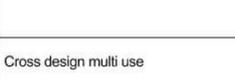


**R 32 (1 1/4")**

Bit	Carbide dimension				D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]			[in]
		[No.]	[mm]	[No.]	[mm]		[kg]		
Button bit 	HEM	5	9	2	9	41	1 5/8"	0.61	14464
	BAL	5	9	2	9	41	1 5/8"	0.61	
	HEM	5	9.5	2	8	43	1 11/16"	0.63	
	BAL	5	9.5	2	8	43	1 11/16"	0.63	
	HEM	5	10	2	9	45	1 3/4"	0.76	
	BAL	5	10	2	9	45	1 3/4"	0.76	
	HEM	5	11	2	9	48	1 7/8"	0.79	
	BAL	5	11	2	9	48	1 7/8"	0.79	
	HEM	5	12.7	2	10	51	2"	0.84	
	BAL	5	11	2	10	51	2"	0.84	
B2 	HEM	6	9	3	8	45	1 3/4"	0.72	14467
	BAL	6	10	3	8	45	1 3/4"	0.72	
	BAL	6	9	3	8	45	1 3/4"	0.72	
	BAL	6	10	3	8	45	1 3/4"	0.72	
	HEM	6	9	3	9	48	1 7/8"	0.78	
	HEM	6	10	3	8	48	1 7/8"	0.78	
	BAL	6	9	3	9	48	1 7/8"	0.78	
	BAL	6	10	3	8	48	1 7/8"	0.78	
	HEM	6	10	3	9.5	51	2"	0.83	
	BAL	6	10	3	9.5	51	2"	0.83	
	HEM	6	10	3	10	57	2 1/4"	1.14	
	BAL	6	10	3	10	57	2 1/4"	1.14	
	HEM	6	11	3	11	64	2 1/2"	2.00	
	BAL	6	11	3	11	64	2 1/2"	2.00	
	B3 	HEM	6	8	2	8	41	1 5/8"	
BAL		6	8	2	8	41	1 5/8"	0.61	
HEM		6	8	2	8	43	1 11/16"	0.70	
BAL		6	8	2	8	43	1 11/16"	0.70	
HEM		6	9	2	9	45	1 3/4"	0.74	
B 	HEM	8	10	4	10	64	2 1/2"	2.00	14457
	BAL	8	10	4	10	64	2 1/2"	2.00	
Flat Face 	HEM	8	10	4	10	64	2 1/2"	2.00	14457
	BAL	8	10	4	10	64	2 1/2"	2.00	
Flat Face 	HEM	8	11	6	11	76	3"	2.76	14473
	BAL	8	11	6	11	76	3"	2.76	

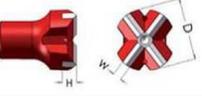
## Extension drilling tools

**R 32 (1 1/4")**

Bit	Carbide dimension				D		Weight	Code No.		
	Carbide design	Gauge		Front		[mm]			[in]	
		[No.]	[mm]	[No.]	[mm]		[kg]			
Button bit 	HEM	6	10	3	10	64	2 1/2"	1.91	14457	
	BAL	6	10	3	10	64	2 1/2"	1.91		
	HEM	6	12.7	3	11	76	3"	2.55		
	BAL	6	12.7	3	11	76	3"	2.55		
	HEM	6	14	3	12.7	89	3 1/2"	3.45		
	BAL	6	14	3	12.7	89	3 1/2"	3.45		
Drop Center 	HEM	6	9	3	9	48	1 7/8"	1.00	14454	
	BAL	6	9	3	9	48	1 7/8"	1.00		
	HEM	6	10	3	9.5	51	2"	1.12		
	BAL	6	10	3	9.5	51	2"	1.12		
	HEM	6	10	3	10	57	2 1/4"	1.60		
	BAL	6	10	3	10	57	2 1/4"	1.60		
Flat Face / Retrac 	HEM	8	10	4	10	64	2 1/2"	2.23	14466	
	BAL	8	10	4	10	64	2 1/2"	2.23		
Flat Face / Retrac 	HEM	8	11	6	11	76	3"	3.30	14473	
	BAL	8	11	6	11	76	3"	3.30		
Flat Face / Retrac 	HEM	6	10	3	10	64	2 1/2"	2.20	14487	
	BAL	6	10	3	10	64	2 1/2"	2.20		
Drop Center / Retrac 	HEM	6	10	3	10	64	2 1/2"	2.20	14487	
	BAL	6	10	3	10	64	2 1/2"	2.20		
		Width		Height						
		W [mm]		H [mm]						
Cross design multi use 		8		14		41	1 5/8"	0.56	14960	
		11.5		19		45	1 3/4"	0.72		
		9.5		19		48	1 7/8"	0.92		
		9.5		19		51	2"	1.10		
		9.5		19		57	2 1/4"	1.35		
		12		20.6		64	2 1/2"	1.95		
		12.7		25		70	2 3/4"	2.50		
		12.7		25		76	3"	2.95		

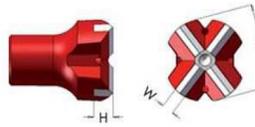
## Extension drilling tools

### R 32 (1 1/4")

Bit	Width	Height	D		Weight	Code No.
	W [mm]	H [mm]	[mm]	[in]	[kg]	
X design multi use 	12.7	25	89	3 1/2"	3.85	14964 14969
	16	25	102	4"	4.56	
Extension rod	D		L		Weight	Code No.
	[mm]	[in]	[mm]	[ft in]	[kg]	
Rd 32 / Ø 11.7 mm (1 1/4" / Ø 15/32")			610 915 1220 1525 1830 2435 3050 3660 4265	2' 3' 4' 5' 6' 8' 10' 12' 14'	3.15 4.50 6.55 8.10 9.70 13.00 16.30 20.10 23.10	24739 24712 21140 24153 21489 21489 21490 21490 21490
MF-rod Rd 32 / Ø 11.7 mm (1 1/4" / Ø 15/32")	45	1 25/32"	915	3'	5.30	24735
	45	1 25/32"	1220	4'	7.30	24713
	45	1 25/32"	1525	5'	8.90	24713
	45	1 25/32"	1830	6'	10.50	24713
	45	1 25/32"	2435	8'	13.80	24738
	45	1 25/32"	3050	10'	17.10	24712
	45	1 25/32"	3660	12'	20.90	24712
	45	1 25/32"	4265	14'	23.90	24735
Coupling	D		L		Weight	Code No.
	[mm]	[in]	[mm]	[in]	[kg]	
	44	1 47/64"	150	6"	0.95	31330
Full bridge	44	1 47/64"	200	7 7/8"	1.50	31723

## Extension drilling tools

### R 38 (1 1/2")

Bit	Carbide dimension				D		Weight	Code No.			
	Carbide design	Gauge		Front		[mm]			[in]		
		[No.]	[mm]	[No.]	[mm]						
Button bit 	HEM	8	10	4	10	64	2 1/2"	1.60	14468 14487		
	BAL	8	10	4	10	64	2 1/2"	1.60			
Flat Face 	HEM	8	11	6	11	76	3"	2.40	14468 14487 14450 14487 14463 14487		
	BAL	8	11	6	11	76	3"	2.40			
	HEM	8	12.7	6	12.7	89	3 1/2"	3.30			
	BAL	8	12.7	6	12.7	89	3 1/2"	3.30			
	HEM	8	14	6	14	102	4"	4.50			
	BAL	8	14	6	14	102	4"	4.50			
Flat Face 	HEM	6	10	3	10	64	2 1/2"	1.60	14488 14488 14457 14457 2.00 14457 2.00 14455 2.40 14456 3.40 14456 3.40		
	BAL	6	10	3	10	64	2 1/2"	1.60			
	HEM	6	11	3	11	70	2 3/4"	2.00			
	BAL	6	11	3	11	70	2 3/4"	2.00			
	HEM	6	12.7	3	11	76	3"	2.40			
	BAL	6	12.7	3	11	76	3"	2.40			
	HEM	6	14	3	12.7	89	3 1/2"	3.40			
	BAL	6	14	3	12.7	89	3 1/2"	3.40			
	Drop Center 		Width	Height							
			W [mm]	H [mm]							
X design multi use 		12	20.6		64	2 1/2"	1.70	14965			
		12.7	25		70	2 3/4"	2.00	14962			
		12.7	25		76	3"	2.40	14962			
		12.7	25		89	3 1/2"	3.40	14962			
		16	25		102	4"	4.60	14966			

## Extension drilling tools

<b>R 38 (1 1/2")</b>													
Extension rod			L		Weight	Code No.							
			[mm]	[ft in]			[kg]						
			1220	4'	9.70	21140							
			1830	6'	14.50	21140							
			2000	6' 6"	16.20	21131							
			2435	8'	19.40	21488							
			3050	10'	24.30	21491							
			3660	12'	29.50	21491							
			4265	14'	34.20	21491							
Coupling		D		L		Weight	Code No.						
		[mm]	[in]	[mm]	[in]			[kg]					
		55	2 11/64"	170	6 11/16"	1.75	31330						
				210	8 9/32"	2.60	34168						
Coupling adapter		Thread		L		Weight	Code No.						
		A	B	[mm]	[in]			[kg]					
		R32	R38	55	2 11/64"	160	6 5/16"	1.80	31334				
		R38	T38	55	2 11/64"	180	7 3/32"	1.80	31144				
Full bridge coupling		Thread		L		Weight	Code No.						
		A	B	[mm]	[in]			[kg]					
		R32	R38	55	2 11/64"			205	8 5/64"	2.60	1723		
		R38	T38	55	2 11/64"	205	8 5/64"	2.40	34165				
		R38	T45	63	2 31/64"	215	8 15/32"	3.30	34166				
Bit adapter		Thread		L		Weight	Code No.						
		A	B	[mm]	[in]			[kg]					
		R32	R38	44	1 47/64"			270	10 5/8"	2.30	31142		
		R38	R32	55	2 11/64"			280	11 1/32"	2.50	34864		
		R38	T38	55	2 11/64"			280	11 1/32"	2.70	34864		
		T38	R38	55	2 11/64"			280	11 1/32"	2.70	31143		
		R38	T45	55	2 11/64"			280	11 1/32"	3.30	34850		
T45	R38	63	2 31/64"	280	11 1/32"	3.10	34865						

## Extension drilling tools

<b>T 38 (1 1/2")</b>															
Bit		Carbide dimension				D		Weight	Code No.						
		Carbide design	Gauge		Front		[mm]			[in]	[kg]				
			[No.]	[mm]	[No.]	[mm]									
		HEM	6	10	3	10	57	2 1/4"	1.30	14488					
		BAL	6	10	3	10	57	2 1/4"	1.30	14488					
		HEM	6	11	3	11	64	2 1/2"	1.70	14480					
		HEM	6	12.7	3	11	64	2 1/2"	1.70	14432					
		BAL	6	11	3	11	64	2 1/2"	1.70	14488					
		HEM	6	12.7	3	12.7	76	3"	2.40	14438					
		BAL	6	12.7	3	12.7	76	3"	2.40	14431					
		HEM	6	14	4	14	89	3 1/2"	3.30	14431					
		BAL	6	14	4	14	89	3 1/2"	3.30	14431					
		HEM	8	10	4	10	64	2 1/2"	1.60	14471					
		BAL	8	10	4	10	64	2 1/2"	1.60	14471					
		HEM	8	11	6	11	76	3"	2.40	14468					
		BAL	8	11	6	11	76	3"	2.40	14468					
		HEM	8	12.7	6	12.7	89	3 1/2"	3.30	14451					
		BAL	8	12.7	6	12.7	89	3 1/2"	3.30	14469					
		HEM	8	14	6	14	102	4"	4.50	14463					
		BAL	8	14	6	14	102	4"	4.50	14462					
		HEM	8	16	6	14	115	4 1/2"	5.30	14479					
		BAL	8	16	6	14	115	4 1/2"	5.30	14479					
		HEM	9	11	8	10	89	3 1/2"	3.30	14486					
		BAL	9	11	8	10	89	3 1/2"	3.30	14488					
		HEM	9	12.7	8	12.7	102	4"	4.40	14488					
		BAL	9	12.7	8	12.7	102	4"	4.40	14489					
		HEM	9	14	9	12.7	115	4 1/2"	5.30	14489					
		BAL	9	14	9	12.7	115	4 1/2"	5.30	14489					
		HEM	9	14	9	12.7	115	4 1/2"	5.30	14489					
		HEM	6	10	3	10	64	2 1/2"	1.60	14451					
		BAL	6	10	3	10	64	2 1/2"	1.60	14451					
		HEM	6	11	3	11	70	2 3/4"	2.00	14452					
		BAL	6	11	3	11	70	2 3/4"	2.00	14452					
		HEM	6	12.7	3	11	76	3"	2.40	14471					
		BAL	6	12.7	3	11	76	3"	2.40	14485					
		HEM	6	14	3	12.7	89	3 1/2"	3.40	14452					
BAL	6	14	3	12.7	89	3 1/2"	3.40	14452							

## Extension drilling tools

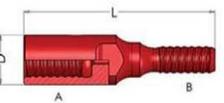
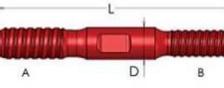
T 38 (1 1/2")									
Bit	Carbide dimension					D		Weight	Code No.
	Carbide design	Gauge		Front		[mm]	[in]		
		[No.]	[mm]	[No.]	[mm]			[kg]	
 Button bit	HEM	8	11	5	10	76	3"	2.40	14460
	BAL	8	11	5	10	76	3"	2.40	14460
	HEM	8	11	4	11	89	3 1/2"	3.30	14460
	BAL	8	11	4	11	89	3 1/2"	3.30	14460
	HEM	8	14	4	12.7	102	4"	4.60	14460
	BAL	8	14	4	12.7	102	4"	4.60	14460
 Drop Center	HEM	6	12.7	3	12.7	76	3"	2.50	14431
	BAL	6	12.7	3	12.7	76	3"	2.50	14431
	HEM	6	14	4	14	89	3 1/2"	3.00	14431
	BAL	6	14	4	14	89	3 1/2"	3.00	14431
 Flat Face / Retrac	HEM	8	10	4	10	64	2 1/2"	1.80	14468
	BAL	8	10	4	10	64	2 1/2"	1.80	14466
 Flat Face / Retrac	HEM	8	11	6	11	76	3"	3.00	14468
	BAL	8	11	6	11	76	3"	3.00	14465
	HEM	8	12.7	6	12.7	89	3 1/2"	5.50	14112
	BAL	8	12.7	6	12.7	89	3 1/2"	5.50	14489
	HEM	8	14	6	14	102	4"	6.90	14489
	BAL	8	14	6	14	102	4"	6.90	14489
 Drop Center / Retrac	HEM	6	10	3	10	64	2 1/2"	1.80	14485
	BAL	6	10	3	10	64	2 1/2"	1.80	14484
	HEM	6	11	3	11	70	2 3/4"	2.50	14489
	BAL	6	11	3	11	70	2 3/4"	2.50	14489
	HEM	6	12.7	3	11	76	3"	3.00	14460
	BAL	6	12.7	3	11	76	3"	3.00	14460
	HEM	6	14	3	12.7	89	3 1/2"	4.90	14497
	BAL	6	14	3	12.7	89	3 1/2"	4.90	14497
 Drop Center / Retrac	HEM	8	11	5	10	76	3"	2.90	14475
	BAL	8	11	5	10	76	3"	2.90	14482
	HEM	8	11	4	11	89	3 1/2"	4.80	14489
	BAL	8	11	4	11	89	3 1/2"	4.80	14489
	HEM	8	14	4	12.7	102	4"	6.70	14489
	BAL	8	14	4	12.7	102	4"	6.70	14490

## Extension drilling tools

T 38 (1 1/2")						
Bit	Width	Height	D		Weight	Code No.
			[mm]	[in]		
 Cross design multi use	12	20.6	64	2 1/2"	1.70	14963
	12.7	25	70	2 3/4"	2.00	14963
	12.7	25	76	3"	2.40	14964
 X design multi use	12	20.6	64	2 1/2"	1.70	14964
	12.7	25	70	2 3/4"	2.00	14962
	12.7	25	76	3"	2.40	14962
	12.7	25	89	3 1/2"	3.40	14962
	16	25	102	4"	4.60	14968
						
Extension rod	D		L		Weight	Code No.
	[mm]	[in]	[mm]	[ft in]		
 Rd 39 / Ø 14.5 mm (1 1/2" / Ø 37/64")			1000	3' 3"	8.00	24723
			1220	4"	9.70	21141
			1500	4' 11"	11.90	24733
			1830	6'	14.40	21141
			2000	6' 6"	16.00	21131
			2435	8'	19.40	21112
			3050	10'	24.10	21112
			3660	12'	29.40	21112
			4265	14'	34.00	21113
	 MF-rod Rd 39 / Ø 14.5 mm (1 1/2" / Ø 37/64")	56	2 7/32"	1220	4'	10.60
56		2 7/32"	1525	5'	13.05	24713
56		2 7/32"	1830	6'	15.60	24711
56		2 7/32"	2435	8'	20.80	24728
56		2 7/32"	3050	10'	25.60	24714
56		2 7/32"	3660	12'	30.40	24716
56		2 7/32"	4265	14'	35.20	24724

## Extension drilling tools

### T 38 (1 1/2")

Coupling	D		L		Weight	Code No.		
	[mm]	[in]	[mm]	[in]	[kg]			
	55	2 11/64"	190	7 1/2"	1.95	31484		
Full bridge 	55	2 11/64"	205	8 5/64"	2.40	34167		
Guide coupling								
	61	2 13/32"	190	7 1/2"	2.20	34750		
Coupling adapter	Thread							
	A	B						
	R32	T38	55	2 11/64"	165	6 1/2"	2.10	34165
	R38	T38	55	2 11/64"	180	7 3/32"	1.80	31144
	T38	T45	63	2 31/64"	195	7 11/16"	2.80	34165
Full bridge 	R32	T38	55	2 11/64"	205	8 5/64"	2.60	34167
	R38	T38	55	2 11/64"	205	8 5/64"	2.40	34165
	T38	T45	63	2 31/64"	215	8 15/32"	3.30	34168
Bit adapter								
	R32	T38	44	1 47/64"	270	10 5/8"	2.50	34858
	T38	R32	55	2 11/64"	280	11 1/32"	2.50	34858
	R38	T38	55	2 11/64"	280	11 1/32"	2.70	34864
	T38	R38	55	2 11/64"	280	11 1/32"	2.70	31143
	T38	T45	55	2 11/64"	280	11 1/32"	3.30	34858
	T45	T38	63	2 31/64"	280	11 1/32"	2.80	34858
Thread adapter								
	T38	R32	32	1 1/4"	255	10"	1.50	31139
	R38	T38	39	1 17/32"	290	11 27/64"	2.05	31139
	T45	T38	46	1 13/16"	360	14 3/16"	3.60	34866

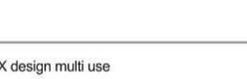
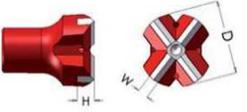
## Extension drilling tools

### T 45 (1 3/4")

Bit	Carbide dimension				D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]			[in]
		[No.]	[mm]	[No.]	[mm]			[kg]	
Button bit 	HEM	6	12.7	5	11	70	2 3/4"	2.30	14456
	BAL	6	12.7	5	11	70	2 3/4"	2.30	14456
Flat Face 	HEM	6	12.7	3	12	76	3"	2.70	14434
	BAL	6	12.7	3	12	76	3"	2.70	14432
	HEM	6	14	4	14	89	3 1/2"	4.90	14440
	BAL	6	14	4	14	89	3 1/2"	4.90	14440
Flat Face 	HEM	8	11	6	11	76	3"	2.60	14469
	BAL	8	11	6	11	76	3"	2.60	14477
	BAL	8	12.7	6	11	82	3 1/4"	3.00	14438
	HEM	8	12.7	6	11	85	3 3/8"	3.20	14470
	BAL	8	12.7	6	11	85	3 3/8"	3.20	14438
	HEM	8	12.7	6	12.7	89	3 1/2"	3.20	14455
	BAL	8	12.7	6	12.7	89	3 1/2"	3.20	14466
	HEM	8	14	6	14	102	4"	4.20	14463
	BAL	8	14	6	14	102	4"	4.20	14463
	HEM	8	16	6	14	115	4 1/2"	7.50	14455
	HEM	8	16	8	14	127	5"	8.80	14477
	Flat Face 	HEM	9	11	8	10	89	3 1/2"	3.20
BAL		9	11	8	10	89	3 1/2"	3.20	14485
HEM		9	12.7	8	12.7	102	4"	4.20	14486
BAL		9	12.7	8	12.7	102	4"	4.20	14486
HEM		9	14	9	12.7	115	4 1/2"	7.50	14490
HEM		9	14	9	14	127	5"	8.80	14490
Flat Face 	HEM	6	11	3	11	70	2 3/4"	2.10	14459
	BAL	6	11	3	11	70	2 3/4"	2.10	14459
	HEM	6	12.7	3	11	76	3"	2.50	14474
	BAL	6	12.7	3	11	76	3"	2.50	14478
	HEM	6	14	3	12.7	89	3 1/2"	3.00	14459
	BAL	6	14	3	12.7	89	3 1/2"	3.00	14459
Drop Center 	HEM	8	11	5	10	76	3"	2.50	14486
	BAL	8	11	5	10	76	3"	2.50	14486
	HEM	8	11	4	11	89	3 1/2"	3.00	14481
	BAL	8	11	4	11	89	3 1/2"	3.00	14481
	HEM	8	14	4	12.7	102	4"	4.40	14482
	BAL	8	14	4	12.7	102	4"	4.40	14486
Drop Center 	HEM	8	14	4	14	115	4 1/2"	7.20	14486
	BAL	8	14	4	14	115	4 1/2"	7.20	14486

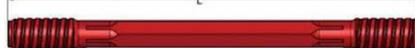
## Extension drilling tools

### T 45 (1 3/4")

Bit	Carbide dimension				D		Weight	Code No.		
	Carbide design	Gauge		Front		[mm]			[in]	
		[No.]	[mm]	[No.]	[mm]			[kg]		
 Button bit	HEM	6	12.7	3	11	76	3"	2.70	14431	
	BAL	6	12.7	3	11	76	3"	2.70		
	HEM	6	14	4	14	89	3 1/2"	4.90		
	BAL	6	14	4	14	89	3 1/2"	4.90		
	BAL	6	14	4	14	89	3 1/2"	4.90		
 Flat face / Retrac	HEM	8	11	6	11	76	3"	2.70	14468	
	BAL	8	11	6	11	76	3"	2.70	14469	
	BAL	8	12.7	6	11	82	3 1/4"	4.00	14438	
	HEM	8	12.7	6	12.7	89	3 1/2"	4.90	14462	
	BAL	8	12.7	6	12.7	89	3 1/2"	4.90	14465	
	HEM	8	14	6	14	102	4"	6.50	14464	
	BAL	8	14	6	14	102	4"	6.50	14465	
	HEM	8	16	6	14	115	4 1/2"	9.20	14455	
	HEM	8	16	8	14	127	5"	10.30	14490	
	 Flat face / Retrac	HEM	6	11	3	11	70	2 3/4"	2.10	14490
BAL		6	11	3	11	70	2 3/4"	2.10	14490	
HEM		6	12.7	3	11	76	3"	2.60	14455	
BAL		6	12.7	3	11	76	3"	2.60	14490	
HEM		6	14	3	12.7	89	3 1/2"	4.50	14497	
BAL		6	14	3	12.7	89	3 1/2"	4.50	14497	
 Drop Center / Retrac	HEM	8	11	5	10	76	3"	2.60	14481	
	BAL	8	11	5	10	76	3"	2.60	14482	
	HEM	8	11	4	11	89	3 1/2"	4.70	14480	
	BAL	8	11	4	11	89	3 1/2"	4.70	14474	
	HEM	8	14	4	12.7	102	4"	6.10	14490	
	BAL	8	14	4	12.7	102	4"	6.10	14482	
	HEM	8	14	4	14	115	4 1/2"	8.60	14455	
	HEM	8	16	4	16	127	5"	9.70	14499	
	 Drop Center / Retrac	Width		Height						
		W [mm]		H [mm]						
12.7		25								
 X design multi use	12.7		25		76	3"	2.40	14963		
	12.7		25		89	3 1/2"	3.10	14963		
	16		25		102	4"	4.30	14964		

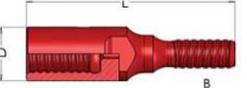
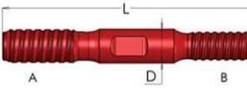
## Extension drilling tools

### T 45 (1 3/4")

Extension rod	D		L		Weight	Code No.
	[mm]	[in]	[mm]	[ft in]		
 Rd 46 / Ø 17 mm (1 13/16" / Ø 11/16")			1000	3' 3"	10.80	24719
			1500	4' 11"	16.30	24731
			2000	6' 6"	21.80	24158
			3050	10'	33.60	24705
			3660	12'	40.40	24705
			4265	14'	47.00	24705
		6095	20'	67.80	24700	
 MF-rod Rd 46 / Ø 17 mm (1 13/16" / Ø 11/16")	64	2 17/32"	1000	3' 3"	13.30	24725
	64	2 17/32"	1220	4'	15.50	24749
	64	2 17/32"	1500	4' 11"	19.00	24729
	64	2 17/32"	1525	5'	19.10	24713
	64	2 17/32"	1830	6'	21.80	24717
	64	2 17/32"	2000	6' 6"	24.20	24726
	64	2 17/32"	3050	10'	35.70	24717
	64	2 17/32"	3050	10'	35.70	24717
 MF-rod Rd 46 / Ø 17 mm (1 13/16" / Ø 11/16")	64	2 17/32"	3660	12'	42.50	24716
	64	2 17/32"	4265	14'	49.50	24728
	64	2 17/32"	4880	16'	53.70	24749
	64	2 17/32"	5490	18'	62.60	24749
	64	2 17/32"	6095	20'	69.60	24748
	64	2 17/32"	6095	20'	69.60	24748
 Hex 38 / Ø 16 mm (1 1/2" / Ø 5/8")			3050	10'	26.00	21118
			3660	12'	31.10	21118
			4265	14'	36.20	21118
 Coupling	D		L		Weight	Code No.
	[mm]	[in]	[mm]	[in]		
	63	2 31/64"	210	8 1/4"	2.95	34166
	66	2 39/64"	210	8 1/4"	3.20	31484
 Full bridge	63	2 31/64"	230	9 1/16"	3.50	34165
	63	2 31/64"	230	9 1/16"	3.50	34165

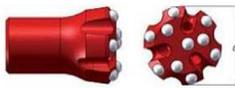
## Extension drilling tools

### T 45 (1 3/4")

Coupling adapter	Thread		D		L		Weight [kg]	Code No.
	A	B	[mm]	[in]	[mm]	[in]		
	T38	T45	63	2 31/64"	195	7 11/16"	2.80	34165 34167
	T45	T51	72	2 27/32"	218	8 19/32"	4.35	
Full bridge 	R32	T45	63	2 31/64"	215	8 15/32"	3.60	34168 34166 34168 34168
	R38	T45	63	2 31/64"	215	8 15/32"	3.30	
	T38	T45	63	2 31/64"	215	8 15/32"	3.30	
	T45	T51	72	2 27/32"	240	9 7/16"	4.60	
Bit adapter								
	R32	T45	44	1 47/64"	360	14 3/16"	3.90	34169 34850 34858 34865 34858 34169 34866
	R38	T45	55	2 11/64"	280	11 1/32"	3.30	
	T38	T45	55	2 11/64"	280	11 1/32"	3.30	
	T45	R38	63	2 31/64"	280	11 1/32"	3.10	
	T45	T38	63	2 31/64"	280	11 1/32"	2.80	
	T45	T51	63	2 31/64"	285	11 7/32"	4.10	
	T45	T45	72	2 27/32"	285	11 7/32"	3.85	
	T51	T45	72	2 27/32"	285	11 7/32"	3.85	
Thread adapter								
	T45	R38	46	1 13/16"	340	13 3/8"	3.50	34861 34866
	T45	T38	46	1 13/16"	360	14 3/16"	3.60	

## Extension drilling tools

### T 51 (2")

Bit	Carbide dimension				D		Weight [kg]	Code No.	
	Carbide design	Gauge		Front		[mm]			[in]
		[No.]	[mm]	[No.]	[mm]				
Button bit 	HEM	6	14	4	14	89	3 1/2"	3.80	14405 14406
	BAL	6	14	4	14	89	3 1/2"	3.80	
Flat Face 	HEM	8	12.7	6	11	82	3 1/4"	3.20	14445 14438 14444 14434 14463 14476 14463 14476 14464 14455 14464 14498
	BAL	8	12.7	6	11	82	3 1/4"	3.20	
	HEM	8	12.7	6	11	85	3 3/8"	3.40	
	BAL	8	12.7	6	11	85	3 3/8"	3.40	
	HEM	8	12.7	6	12.7	89	3 1/2"	3.80	
	BAL	8	12.7	6	12.7	89	3 1/2"	3.80	
	HEM	8	14	6	14	102	4"	5.20	
	BAL	8	14	6	14	102	4"	5.20	
	HEM	8	16	6	14	115	4 1/2"	6.70	
	BAL	8	16	6	14	115	4 1/2"	6.70	
Flat Face 	HEM	8	16	8	14	127	5"	8.00	14464 14455 14464 14498
	BAL	8	16	8	16	140	5 1/2"	12.20	
	HEM	9	11	8	10	89	3 1/2"	3.80	
	BAL	9	11	8	10	89	3 1/2"	3.80	
	HEM	9	12.7	8	12.7	102	4"	5.30	
Flat Face 	BAL	9	12.7	8	12.7	102	4"	5.30	14485 14485 14485 14490 14491
	HEM	9	14	9	12.7	115	4 1/2"	6.00	
	BAL	9	14	9	14	127	5"	8.10	
	HEM	9	14	9	14	127	5"	8.10	
	HEM	9	14	9	14	127	5"	8.10	
Flat Face 	HEM	8	14	6	12.7	102	4"	5.30	14446 14446 14497 14446 14446 14447
	BAL	8	14	6	12.7	102	4"	5.30	
	HEM	8	14	7	14	115	4 1/2"	6.00	
	BAL	8	14	7	14	115	4 1/2"	6.00	
	HEM	8	16	8	14	127	5"	8.10	
	BAL	8	16	8	14	127	5"	8.10	
Drop Center 	HEM	6	12.7	3	11	76	3"	3.00	14430 14430 14430 14431 14487 14487
	BAL	6	12.7	3	11	76	3"	3.00	
	HEM	6	12.7	3	11	80	3 1/8"	3.30	
	BAL	6	12.7	3	11	80	3 1/8"	3.30	
	HEM	6	14	3	12.7	89	3 1/2"	3.60	
	BAL	6	14	3	12.7	89	3 1/2"	3.60	

## Extension drilling tools

### T 51 (2'')

Bit	Carbide dimension				D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]			[in]
		[No.]	[mm]	[No.]	[mm]			[kg]	
	HEM	8	11	4	11	89	3 1/2"	3.60	14760
	BAL	8	11	4	11	89	3 1/2"	3.60	14759
	HEM	8	14	4	12.7	102	4"	4.80	14764
	BAL	8	14	4	12.7	102	4"	4.80	14763
	HEM	8	14	4	14	115	4 1/2"	6.20	14610
	BAL	8	14	4	14	115	4 1/2"	6.20	14611
	HEM	8	16	4	16	127	5"	7.70	14849
	BAL	8	16	4	16	127	5"	7.70	14870
	HEM	8	16	4	16	140	5 1/2"	11.80	14989
	Drop Center	HEM	6	14	4	14	89	3 1/2"	5.40
BAL		6	14	4	14	89	3 1/2"	5.40	14408
	BAL	8	12.7	6	11	82	3 1/4"	4.00	14386
	HEM	8	12.7	6	12.7	89	3 1/2"	5.40	14645
	BAL	8	12.7	6	12.7	89	3 1/2"	5.40	14691
	CON	8	12.7	6	12.7	89	3 1/2"	5.40	14496
	HEM	8	14	6	14	102	4"	7.50	14724
	BAL	8	14	6	14	102	4"	7.50	14678
	HEM	8	16	6	14	115	4 1/2"	10.20	14978
	HEM	8	16	8	14	127	5"	13.00	14979
	HEM	8	16	8	16	140	5 1/2"	17.20	14980
		HEM	9	11	8	10	89	3 1/2"	5.40
BAL		9	11	8	10	89	3 1/2"	5.40	14961
HEM		9	12.7	8	12.7	102	4"	7.50	14962
BAL		9	12.7	8	12.7	102	4"	7.50	14963
HEM		9	14	9	12.7	115	4 1/2"	10.20	14964
HEM		9	14	9	14	127	5"	13.00	14965
HEM		9	14	9	14	127	5"	13.00	14965
	HEM	8	14	6	12.7	102	4"	7.40	14471
	BAL	8	14	6	12.7	102	4"	7.40	14472
	HEM	8	14	7	14	115	4 1/2"	10.20	14473
	HEM	8	16	8	14	127	5"	13.00	14474
	HEM	6	14	3	12.7	89	3 1/2"	5.20	14975
	BAL	6	14	3	12.7	89	3 1/2"	5.20	14976

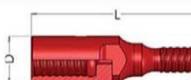
## Extension drilling tools

### T 51 (2'')

Bit	Carbide dimension				D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]			[in]
		[No.]	[mm]	[No.]	[mm]			[kg]	
	HEM	8	11	4	11	89	3 1/2"	5.20	14761
	BAL	8	11	4	11	89	3 1/2"	5.20	14746
	CON	8	11	4	11	89	3 1/2"	5.20	14336
	HEM	8	14	4	12.7	102	4"	7.40	14747
	BAL	8	14	4	12.7	102	4"	7.40	14748
	HEM	8	16	4	14	115	4 1/2"	9.90	14982
	HEM	8	16	4	16	127	5"	12.60	14983
	HEM	8	16	4	16	140	5 1/2"	17.00	14984
	Drop Center / Retrac	Width		Height					
W [mm]		H [mm]							
	12.7		25		89	3 1/2"	4.70	19636	
	16		25		102	4"	5.20	19693	
	16		25		115	4 1/2"	6.20	19694	
Extension rod	D		L		Weight	Code No.			
	[mm]	[in]	[mm]	[ft in]			[kg]		
	Rd 52 / Ø 21.5 mm (2 1/16" / Ø 27/32")				3050	10'	41.25	27140	
					3660	12'	50.00	27141	
					4265	14'	58.20	27381	
					6095	20'	83.50	26184	
					7315	24'	99.40	23759	
	MF-rod Rd 52 / Ø 21.5 mm (2 1/16" / Ø 27/32")				1830	6'	27.30	27337	
					72	2 27/32"	3050	10'	46.00
					72	2 27/32"	3660	12'	52.50
					72	2 27/32"	4265	14'	61.00
					72	2 27/32"	4880	16'	67.90
					72	2 27/32"	5490	18'	78.00
					72	2 27/32"	6095	20'	86.50
					72	2 27/32"	6095	20'	86.50

## Extension drilling tools

### T 51 (2")

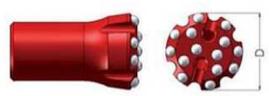
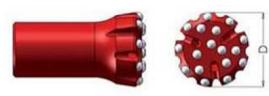
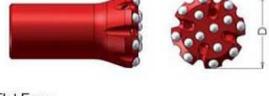
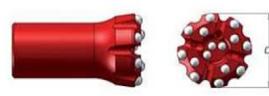
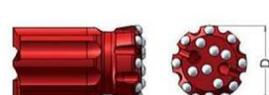
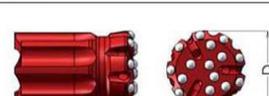
Coupling	D		L		Weight	Code No.		
	[mm]	[in]	[mm]	[in]	[kg]			
	72	2 27/32"	225	8 7/8"	3.85	31662		
	76	3"	225	8 7/8"	4.70	31686		
Full bridge	72	2 27/32"	250	10"	5.30	31685		
Coupling adapter	Thread							
	A	B						
	T51	T45	72	2 27/32"	218	8 19/32"	4.35	31676
Full bridge	T45	T51	72	2 27/32"	240	9 7/16"	4.60	31689
Bit adapter								
	T45	T51	63	2 31/64"	285	11 7/32"	4.10	31693
	T51	T45	72	2 27/32"	285	11 7/32"	3.85	38661
	T51	ST58	76	3"	285	11 7/32"	5.70	38658



## Extension drilling tools

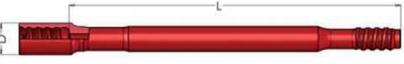
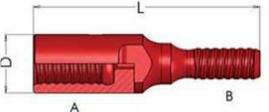


### ST 58 (2 1/4")

Bit	Carbide dimension				D		Weight	Code No.		
	Carbide design	Gauge		Front		[mm]	[in]		[kg]	
		[No.]	[mm]	[No.]	[mm]					
 Button bit	HEM	8	12.7	6	12.7	89	3 1/2"	4.40	14939	
	BAL	8	12.7	6	12.7	89	3 1/2"	4.40	14940	
	HEM	8	14	6	14	102	4"	5.90	14941	
	BAL	8	14	6	14	102	4"	5.90	14942	
	HEM	8	16	6	14	115	4 1/2"	7.40	14943	
	BAL	8	16	6	14	115	4 1/2"	7.40	14944	
	HEM	8	16	8	14	127	5"	8.70	14945	
	HEM	8	16	8	16	140	5 1/2"	12.90	14992	
 Flat Face	HEM	9	11	8	10	89	3 1/2"	4.40	14946	
	BAL	9	11	8	10	89	3 1/2"	4.40	14947	
	HEM	9	12.7	8	12.7	102	4"	5.90	14948	
	BAL	9	12.7	8	12.7	102	4"	5.90	14949	
	HEM	9	14	9	12.7	115	4 1/2"	7.40	14950	
	HEM	9	14	9	14	127	5"	8.70	14951	
 Flat Face	HEM	8	14	6	12.7	102	4"	5.90	14460	
	BAL	8	14	6	12.7	102	4"	5.90	14461	
	HEM	8	14	7	14	115	4 1/2"	7.40	14480	
	BAL	8	14	7	14	115	4 1/2"	7.40	14462	
	HEM	8	16	8	14	127	5"	8.70	14463	
	 Drop Center	HEM	8	11	4	11	89	3 1/2"	4.20	14952
BAL		8	11	4	11	89	3 1/2"	4.20	14953	
HEM		8	14	4	12.7	102	4"	5.40	14954	
BAL		8	14	4	12.7	102	4"	5.40	14955	
HEM		8	14	4	14	115	4 1/2"	6.80	14956	
BAL		8	14	4	14	115	4 1/2"	6.80	14957	
HEM		8	16	4	16	127	5"	8.30	14958	
BAL		8	16	4	16	127	5"	8.30	14959	
HEM		8	16	4	16	140	5 1/2"	12.40	14993	
 Drop Center		HEM	8	12.7	6	12.7	89	3 1/2"	5.20	14927
		BAL	8	12.7	6	12.7	89	3 1/2"	5.20	14777
		BAL	8	12.7	6	12.7	93	3 3/4"	5.40	14917
	HEM	8	14	6	14	102	4"	7.30	14925	
	BAL	8	14	6	14	102	4"	7.30	14922	
	HEM	8	16	6	14	115	4 1/2"	10.00	14966	
	HEM	8	16	8	14	127	5"	12.70	14928	
	HEM	8	16	8	16	140	5 1/2"	17.20	14985	
	 Flat Face / Retrac	HEM	9	11	8	10	89	3 1/2"	5.20	14929
		BAL	9	11	8	10	89	3 1/2"	5.20	14930
BAL		9	11	8	11	93	3 3/4"	5.40	14921	
HEM		9	12.7	8	12.7	102	4"	7.30	14931	
BAL		9	12.7	8	12.7	102	4"	7.30	14932	
HEM		9	14	9	12.7	115	4 1/2"	10.00	14926	
HEM		9	14	9	14	127	5"	12.70	14933	
 Flat Face / Retrac		HEM	9	14	9	14	127	5"	12.70	14933

## Extension drilling tools

### ST 58 (2 1/4")

Bit	Carbide dimension					D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]	[in]			
		[No.]	[mm]	[No.]	[mm]			[kg]		
	HEM	8	14	6	12.7	102	4"	7.00	14464	
	BAL	8	14	6	12.7	102	4"	7.00	14465	
	HEM	8	14	7	14	115	4 1/2"	9.60	14492	
	HEM	8	16	8	14	127	5"	12.30	14466	
	HEM	8	11	4	11	89	3 1/2"	5.00	14934	
	BAL	8	11	4	11	89	3 1/2"	5.00	14935	
	BAL	8	12.7	4	12.7	93	3 3/4"	5.20	14916	
	HEM	8	14	4	12.7	102	4"	7.00	14924	
	BAL	8	14	4	12.7	102	4"	7.00	14936	
	HEM	8	14	4	14	115	4 1/2"	9.60	14937	
	HEM	8	16	4	16	127	5"	12.30	14986	
	HEM	8	16	4	16	140	5 1/2"	17.00	14987	
Drop Center / Retrac										
Extension rod	D		L		Weight	Code No.				
	[mm]	[in]	[mm]	[ft in]			[kg]			
	MF-rod Rd 60 / Ø 22.6 mm (2 3/8" / Ø 57/64")		81	3 3/16"	3660	12'	76.20	23942		
			81	3 3/16"	4265	14'	86.70	23922		
			81	3 3/16"	5490	18'	109.60	23962		
			81	3 3/16"	6095	20'	121.70	23998		
Bit adapter	Thread		D		L		Weight	Code No.		
	A	B	[mm]	[in]	[mm]	[in]			[kg]	
	T51	ST58	76	3"	285	11 7/32"	5.70	38658		
	ST58	T51	81	3 3/16"	310	12 3/16"	6.00	38703		
	ST58	*T60	81	3 3/16"	305	12"	6.10	38538		

## Extension drilling tools

### GT 60 (2 1/4")

Bit	Carbide dimension					D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]	[in]			
		[No.]	[mm]	[No.]	[mm]			[kg]		
	HEM	8	12.7	6	12.7	93	3 11/16"	5.20	14290	
	BAL	8	12.7	6	12.7	93	3 11/16"	5.20	14289	
	HEM	8	12.7	6	12.7	95	3 3/4"	5.40	14288	
	BAL	8	12.7	6	12.7	95	3 3/4"	5.40	14287	
	HEM	8	14	6	12.7	102	4"	7.00	14359	
	BAL	8	14	6	12.7	102	4"	7.00	14360	
	HEM	8	14	7	14	115	4 1/2"	9.60	14361	
	BAL	8	14	7	14	115	4 1/2"	9.60	14362	
	HEM	8	16	8	14	127	5"	12.30	14363	
		HEM	8	12.7	4	12.7	93	3 11/16"	5.20	14286
		BAL	8	12.7	4	12.7	93	3 11/16"	5.20	14285
		HEM	8	12.7	4	12.7	95	3 3/4"	5.40	14284
BAL		8	12.7	4	12.7	95	3 3/4"	5.40	14283	
HEM		8	14	4	12.7	102	4"	7.00	14364	
BAL		8	14	4	12.7	102	4"	7.00	14365	
HEM		8	14	4	14	115	4 1/2"	9.60	14366	
BAL		8	14	4	14	115	4 1/2"	9.60	14367	
HEM		8	16	4	16	127	5"	12.30	14368	
BAL		8	16	4	16	127	5"	12.30	14369	
	HEM	8	12.7	6	12.7	93	3 11/16"	5.20	14282	
	BAL	8	12.7	6	12.7	93	3 11/16"	5.20	14281	
	HEM	8	12.7	6	12.7	95	3 3/4"	5.40	14280	
	BAL	8	12.7	6	12.7	95	3 3/4"	5.40	14279	
	HEM	8	14	6	12.7	102	4"	7.00	14371	
	BAL	8	14	6	12.7	102	4"	7.00	14372	
	HEM	8	14	7	14	115	4 1/2"	9.60	14373	
	HEM	8	16	8	14	127	5"	12.30	14374	
										

## Extension drilling tools

### GT 60 (2 1/4")

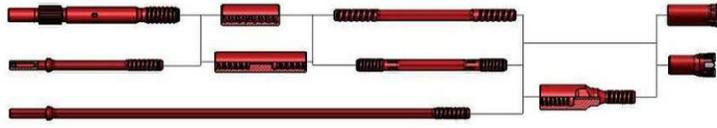
Bit	Carbide dimension				D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]			[in]
		[No.]	[mm]	[No.]	[mm]			[kg]	
Button bit 	HEM	8	12.7	4	12.7	93	3 11/16"	5.20	14278
	BAL	8	12.7	4	12.7	93	3 11/16"	5.20	14277
	HEM	8	12.7	4	12.7	95	3 3/4"	5.40	14276
	BAL	8	12.7	4	12.7	95	3 3/4"	5.40	14275
	HEM	8	14	4	12.7	102	4"	7.00	14375
	BAL	8	14	4	12.7	102	4"	7.00	14376
	HEM	8	14	4	14	115	4 1/2"	9.60	14377
	HEM	8	16	4	16	127	5"	12.30	14378
	HEM	8	16	4	16	140	5 1/2"	17.00	14379
	Drop Center / Retrac								
Extension rod	D		L		Weight	Code No.			
	[mm]	[in]	[mm]	[ft in]			[kg]		
MF-rod Rd 60 / Ø 22.6 mm (2 3/8" / Ø 57/64")		82	3 3/16"	3660	12'	80.00	23608		
		82	3 3/16"	4270	14'	90.00	23609		
		82	3 3/16"	6095	20'	124.00	23610		



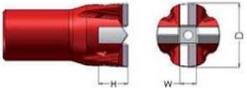
## Drifting and Tunnelling tools



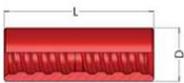
## Drifting and Tunnelling tools



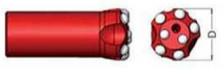
**R 25 (1")**  
Bit Thread

Bit	Carbide dimension				D		Weight [kg]	Code No.	
	Carbide design	Gauge		Front		[mm]			[in]
		[No.]	[mm]	[No.]	[mm]				
<b>Button bit</b>  	HEM	5	7	2	7	33	1 5/16"	0.33	14847
	BAL	5	7	2	7	33	1 5/16"	0.33	14616
	HEM	5	8	2	7	35	1 3/8"	0.44	14741
	BAL	5	8	2	7	35	1 3/8"	0.44	14647
	HEM	5	9	2	7	38	1 1/2"	0.56	14617
	BAL	5	9	2	7	38	1 1/2"	0.56	14754
	HEM	5	9	2	9	41	1 5/8"	0.61	14673
	BAL	5	9	2	9	41	1 5/8"	0.61	14677
	HEM	5	9.5	2	8	43	1 11/16"	0.63	14623
	BAL	5	9.5	2	8	43	1 11/16"	0.63	14991
	HEM	5	10	2	9	45	1 3/4"	0.78	14602
	BAL	5	10	2	9	45	1 3/4"	0.78	14603
	HEM	5	11	2	8	48	1 7/8"	0.82	14326
	BAL	5	11	2	8	48	1 7/8"	0.82	14327
	HEM	5	11	2	10	51	2"	0.88	14328
	BAL	5	11	2	10	51	2"	0.88	14329
<b>B2</b>  	HEM	6	9	3	8	45	1 3/4"	0.78	14618
	BAL	6	9	3	8	45	1 3/4"	0.78	14619
	HEM	6	9	3	9	48	1 7/8"	0.89	14624
	BAL	6	9	3	9	48	1 7/8"	0.89	14625
	HEM	6	10	3	9.5	51	2"	1.00	14767
	BAL	6	10	3	9.5	51	2"	1.00	14626
	HEM	6	10	3	10	57	2 1/4"	1.31	14629
	BAL	6	10	3	10	57	2 1/4"	1.31	14632
<b>B3</b>	<b>Width</b>		<b>Height</b>						
	W [mm]		H [mm]						
<b>Cross design multi use</b>  		8		14	35	1 3/8"	0.38	19673	
		8		14	38	1 1/2"	0.48	19600	
		8		14	41	1 5/8"	0.59	19601	
		8		14	45	1 3/4"	0.79	19603	
		9.5		19	48	1 7/8"	0.92	19640	
		9.5		19	51	2"	0.97	19660	
		9.5		19	57	2 1/4"	1.09	9658	

## Drifting and Tunnelling tools

R 25 (1")							Bit Thread		
Tunnelling rod	L		Weight	Code No.					
	[mm]	[ft in]			[kg]				
R 25 – Hex 25 – R 25 / Ø 8.6 mm R 1" – Hex 1" – R 1" / Ø 11/32"	610	2'	2.20	27199					
	915	3'	3.55	24943					
	1220	4'	4.50	24944					
	1525	5'	5.70	21565					
	1830	6'	6.90	24946					
	2435	8'	9.20	24947					
	3050	10'	11.60	24926					
	3660	12'	13.90	21560					
R 32 – Hex 25 – R 25 / Ø 8.6 mm R 1 1/4" – Hex 1" – R 1" / Ø 11/32"	1830	6'	7.25	23803					
	2130	7'	8.40	21165					
	2475	8' 1 1/2"	9.60	21166					
	2795	9' 1 1/2"	10.80	23873					
	3090	10' 1 1/2"	12.00	21167					
	3700	12' 1 1/2"	14.40	21553					
R 32 – Hex 28 – R 25 / Ø 8.8 mm R 1 1/4" – Hex 1 1/8" – R 1" / Ø 11/32"	3090	10' 1 1/2"	15.00	27068					
	3700	12' 1 1/2"	18.50	27069					
R 38 – Hex 28 – R 25 / Ø 8.8 mm R 1 1/2" – Hex 1 1/8" – R 1" / Ø 11/32"	3090	10' 1 1/2"	15.50	23731					
	3700	12' 1 1/2"	19.00	23776					
Coupling	Thread	D		L		Weight	Code No.		
		[mm]	[in]	[mm]	[in]			[kg]	
	R25	35	1 3/8"	150	6"	0.60	33332		
	R32	44	1 47/64"	150	6"	0.95	33308		
	R38	55	2 11/64"	170	6 11/16"	1.75	33302		
Full bridge 	R25	35	1 3/8"	200	7 7/8"	1.20	37233		
	R32	44	1 47/64"	200	7 7/8"	1.50	37234		
	R38	55	2 11/64"	210	8 9/32"	2.60	31687		

## Drifting and Tunnelling tools

R 28 (1 1/8")										Bit Thread		
Bit	Carbide dimension					D		Weight	Code No.			
	Carbide design	Gauge		Front		[mm]	[in]			[kg]		
		[No.]	[mm]	[No.]	[mm]							
Button bit 	HEM	5	8	2	7	36	1 13/32"	0.42	14792			
	BAL	5	8	2	7	36	1 13/32"	0.42	14990			
	HEM	5	8	2	8	38	1 1/2"	0.48	14664			
	BAL	5	9	2	7	38	1 1/2"	0.48	14727			
	HEM	5	9	2	9	41	1 5/8"	0.56	14628			
	BAL	5	9	2	9	41	1 5/8"	0.56	14656			
	HEM	5	9.5	2	8	43	1 11/16"	0.68	14994			
	BAL	5	9.5	2	8	43	1 11/16"	0.68	14661			
	HEM	5	10	2	9	45	1 3/4"	0.72	14729			
	BAL	5	10	2	9	45	1 3/4"	0.72	14563			
B2 	HEM	6	9	3	8	45	1 3/4"	0.72	14564			
	BAL	6	9	3	8	45	1 3/4"	0.72	14662			
	HEM	6	9	3	9	48	1 7/8"	0.89	14683			
	BAL	6	9	3	9	48	1 7/8"	0.89	14698			
	HEM	6	10	3	9.5	51	2"	0.97	14753			
	BAL	6	10	3	9.5	51	2"	0.97	14699			
B3 			Width		Height							
			W [mm]		H [mm]							
Cross design multi use 			8		14		38		1 1/2"			
			8		14		41		1 5/8"			
			8		14		45		1 3/4"			

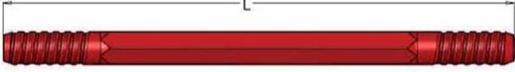
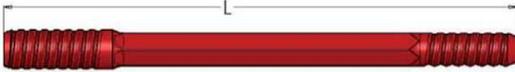
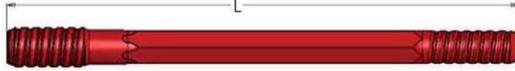
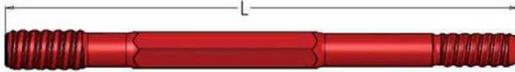
## Drifting and Tunnelling tools

<b>R 28 (1 1/8") Bit Thread</b>								
Tunnelling rod	L		Weight	Code No.				
	[mm]	[ft in]			[kg]			
R 32 – Hex 28 – R 28 / Ø 8.8 mm R 1 1/4" – Hex 1 1/8" – R 1 1/8" / Ø 11/32"	2475	8' 1 1/2"	11.90	27072				
	2590	8' 6 3/8"	12.40	23720				
	3090	10' 1 1/2"	15.15	21634				
	3700	12' 1 1/2"	18.20	21635				
	4005	13' 1 1/2"	19.70	21636				
	4305	14' 1 1/2"	21.20	21632				
R 38 – Hex 28 – R 28 / Ø 8.8 mm R 1 1/2" – Hex 1 1/8" – R 1 1/8" / Ø 11/32"	3090	10' 1 1/2"	15.50	27176				
	3700	12' 1 1/2"	18.45	21637				
	4305	14' 1 1/2"	21.60	21633				
R 38 – Hex 32 – R 28 / Ø 9.6 mm R 1 1/2" – Hex 1 1/4" – R 1 1/8" / Ø 3/8"	3090	10' 1 1/2"	19.00	27175				
	3700	12' 1 1/2"	23.00	27145				
	4305	14' 1 1/2"	27.10	27146				
	4915	16' 1 1/2"	28.20	27231				
	5525	18' 1 1/2"	34.50	27331				
Coupling	Thread	D		L		Weight	Code No.	
		[mm]	[in]	[mm]	[in]			[kg]
	R28	39	1 1/2"	150	6"	0.60	31661	
	R32	44	1 47/64"	150	6"	0.95	33308	
	R38	55	2 11/64"	170	6 11/16"	1.75	33302	
Full bridge	R32	44	1 47/64"	200	7 7/8"	1.50	37234	
	R38	55	2 11/64"	210	8 9/32"	2.60	31687	
Coupling adapter / Full bridge								
	A	B						
	R25	R28	38	1 1/2"	170	6 11/16"	1.00	38505
	R28	R32	44	1 47/64"	170	6 11/16"	1.30	38506
Bit adapter								
	R25	R28	44	1 47/64"	185	7 9/32"	1.25	31424
	R28	R25	44	1 47/64"	185	7 9/32"	1.30	38696
	R28	R32	44	1 47/64"	185	7 9/32"	1.15	31427

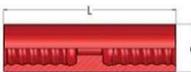
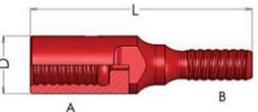
## Drifting and Tunnelling tools

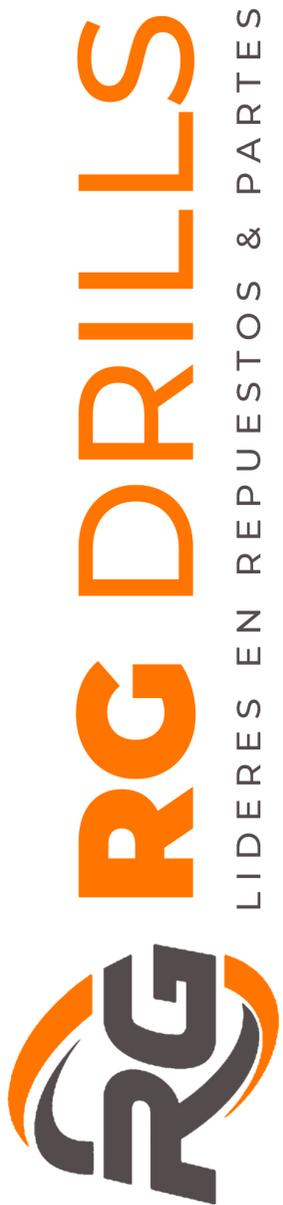
<b>R 32 (1 1/4") Bit Thread</b>										
Bit	Carbide dimension					D		Weight	Code No.	
	Carbide design	Gauge		Front		[mm]	[in]			[kg]
		[No.]	[mm]	[No.]	[mm]					
Button bit 	HEM	5	9	2	9	41	1 5/8"	0.61	14649	
	BAL	5	9	2	9	41	1 5/8"	0.61	14650	
	HEM	5	9.5	2	8	43	1 11/16"	0.63	14636	
	BAL	5	9.5	2	8	43	1 11/16"	0.63	14648	
	HEM	5	10	2	9	45	1 3/4"	0.76	14652	
	BAL	5	10	2	9	45	1 3/4"	0.76	14651	
	HEM	5	11	2	9	48	1 7/8"	0.79	14529	
	BAL	5	11	2	9	48	1 7/8"	0.79	14659	
	HEM	5	12.7	2	10	51	2"	0.84	14757	
	BAL	5	11	2	10	51	2"	0.84	14567	
B2 	HEM	6	9	3	8	45	1 3/4"	0.72	14675	
	HEM	6	10	3	8	45	1 3/4"	0.72	14726	
	BAL	6	9	3	8	45	1 3/4"	0.72	14704	
	BAL	6	10	3	8	45	1 3/4"	0.72	14728	
	HEM	6	9	3	9	48	1 7/8"	0.78	14690	
	BAL	6	9	3	9	48	1 7/8"	0.78	14787	
	HEM	6	10	3	9.5	51	2"	0.83	14756	
	BAL	6	10	3	9.5	51	2"	0.83	14802	
	HEM	6	10	3	10	57	2 1/4"	1.14	14730	
	BAL	6	10	3	10	57	2 1/4"	1.14	14791	
B 	HEM	6	8	2	8	41	1 5/8"	0.61	14803	
	BAL	6	8	2	8	41	1 5/8"	0.61	14347	
	HEM	6	8	2	8	43	1 11/16"	0.70	14716	
	BAL	6	8	2	8	43	1 11/16"	0.70	14717	
	HEM	6	9	2	9	45	1 3/4"	0.74	14740	
	BAL	6	9	2	9	45	1 3/4"	0.74	14755	
Flat Face / Retrac 	HEM	6	9	3	9	48	1 7/8"	1.00	14540	
	BAL	6	9	3	9	48	1 7/8"	1.00	14542	
	HEM	6	10	3	9.5	51	2"	1.12	11174	
	BAL	6	10	3	9.5	51	2"	1.12	14758	
	HEM	6	10	3	10	57	2 1/4"	1.60	11173	
	BAL	6	10	3	10	57	2 1/4"	1.60	14806	
		Width		Height						
		W [mm]		H [mm]						
Cross design multi use 			8	14	41	1 5/8"	0.56	19608		
			11.5	19	45	1 3/4"	0.72	19615		
			9.5	19	48	1 7/8"	0.92	19616		
			9.5	19	51	2"	1.10	19617		
			9.5	19	57	2 1/4"	1.35	9618		

## Drifting and Tunnelling tools

<b>R 32 (1 1/4")</b> Bit Thread				
Tunnelling rod	L		Weight	
	[mm]	[ft.in]	[kg]	
R 32 – Hex 32 – R 32 / Ø 9.6 mm R 1 1/4" – Hex 1 1/4" – R 1 1/4" / Ø 3/8"	2475	8' 1 1/2"	15.30	27089
	3090	10' 1 1/2"	19.30	27100
	3700	12' 1 1/2"	23.10	21646
	4305	14' 1 1/2"	27.00	21622
				
R 38 – Hex 32 – R 32 / Ø 9.6 mm R 1 1/2" – Hex 1 1/4" – R 1 1/4" / Ø 3/8"	2475	8' 1 1/2"	14.10	27307
	3090	10' 1 1/2"	19.70	27058
	3700	12' 1 1/2"	23.50	27059
	4005	13' 1 1/2"	25.40	27154
	4305	14' 1 1/2"	27.40	27060
	4610	15' 1 1/2"	29.30	21142
	4915	16' 1 1/2"	31.30	27061
				
R 38 – Hex 35 – R 32 / Ø 9.5 mm R 1 1/2" – Hex 1 3/8" – R 1 1/4" / Ø 3/8"	3090	10' 1 1/2"	23.40	27198
	3700	12' 1 1/2"	28.10	27165
	4305	14' 1 1/2"	32.90	27148
	4915	16' 1 1/2"	37.60	27149
	5525	18' 1 1/2"	42.50	27179
				
R 38 – RD 39 – R 32 / Ø 10.3 mm R 1 1/2" – RD 1 1/2" – R 1 1/4" / Ø 37/64"	4305	14' 1 1/2"	37.90	23750
				
T 38 – Hex 32 – R 32 / Ø 9.6 mm T 1 1/2" – Hex 1 1/4" – R 1 1/4" / Ø 3/8"	2475	8' 1 1/2"	14.10	23765
	3090	10' 1 1/2"	19.70	21383
	3700	12' 1 1/2"	23.50	21384
	4305	14' 1 1/2"	27.40	21386
	4915	16' 1 1/2"	31.30	21388
				
T 38 – Hex 35 – R 32 / Ø 9.5 mm T 1 1/2" – Hex 1 3/8" – R 1 1/4" / Ø 3/8"	3090	10' 1 1/2"	23.40	23743
	3700	12' 1 1/2"	28.10	27161
	4305	14' 1 1/2"	32.90	27150
	4915	16' 1 1/2"	37.60	27151
	6135	20' 1 1/2"	48.00	27209
				

## Drifting and Tunnelling tools

<b>R 32 (1 1/4")</b> Bit Thread																
Tunnelling rod	D		L		Weight											
	[mm]	[in]	[mm]	[ft.in]	[kg]											
T 38 – RD 39 – R 32 / Ø 14.5 mm T 1 1/2" – RD 1 1/2" – R 1 1/4" / Ø 37/64"			4305	14' 1 1/2"	37.00	23987										
			4915	16' 1 1/2"	38.80	23604										
			5525	18' 1 1/2"	44.20	23605										
			6135	20' 1 1/2"	49.00	23635										
																
MF-rod T 38F – Hex 35 – R 32 / Ø 9.5 mm T 1 1/2" – Hex 1 3/8" – R 1 1/4" / Ø 3/8"	56	2 7/32"	3090	10' 1 1/2"	25.10	27332										
	56	2 7/32"	3700	12' 1 1/2"	29.10	27297										
	56	2 7/32"	4305	14' 1 1/2"	33.70	27300										
	56	2 7/32"	4915	16' 1 1/2"	38.60	27301										
	56	2 7/32"	5525	18' 1 1/2"	45.00	27246										
	56	2 7/32"	6140	20' 1 1/2"	49.00	27380										
																
Coupling	Thread		D		L		Weight									
			[mm]	[in]	[mm]	[in]	[kg]									
	R32	R38	44	1 47/64"	150	6"	0.95	33308								
	R38	T38	55	2 11/64"	170	6 11/16"	1.75	33302								
	T38		55	2 11/64"	190	7 1/2"	1.95	34844								
Full bridge	R32		44	1 47/64"	200	7 7/8"	1.50	37234								
	R38		55	2 11/64"	210	8 9/32"	2.60	31687								
	T38		55	2 11/64"	205	8 5/64"	2.40	31670								
Coupling adapter / Full bridge																
									A	B						
	R25	R32	44	1 47/64"	200	7 7/8"	1.70	37235								
	R28	R32	44	1 47/64"	170	6"	1.30	38506								
	R32	R38	55	2 11/64"	205	8 5/64"	2.60	37236								
	R32	T38	55	2 11/64"	205	8 5/64"	2.60	31675								
	R32	T45	63	2 31/64"	215	8 15/32"	3.60	31680								
Bit adapter																
									R25	R32	44	1 47/64"	185	7 9/32"	1.20	31425
									R28	R32	44	1 47/64"	185	7 9/32"	1.15	31427
									R32	R38	44	1 47/64"	270	10 5/8"	2.30	31426
									R32	T38	44	1 47/64"	270	10 5/8"	2.50	38585
									R32	T45	44	1 47/64"	360	14 3/16"	3.90	31694
									R38	R32	55	2 11/64"	280	11 1/32"	2.50	38645
									T38	R32	55	2 11/64"	280	11 1/32"	2.50	38586
																

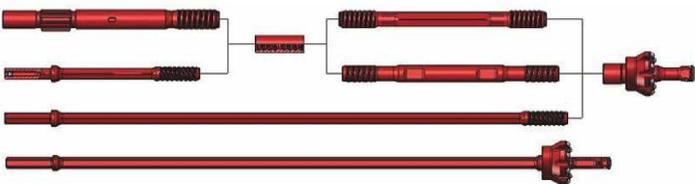


LIDERES EN REPUESTOS & PARTES

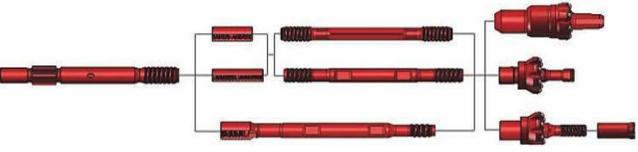
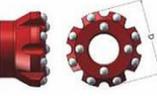


Reaming tools

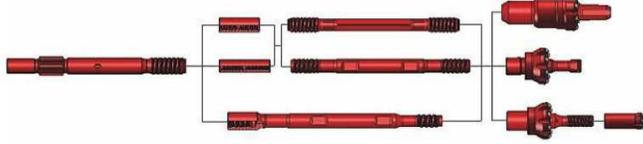
## Reaming tools

<b>6° Taper</b>											
											
Reaming bit	Carbide dimension				D		Weight [kg]	Code No.			
	Gauge		Front		[mm]	[in]					
	[No.]	[mm]	[No.]	[mm]							
											
	8	9.5	4	8	64	2 1/2	0.90	43030			
	6	11	3	11	76	3	1.25	43031			
	8	12.7	4	11	89	3 1/2	1.80	43014			
Pilot adapter	Thread		L		D		Weight [kg]	Code No.			
			[mm]	[in]	[mm]	[in]					
											
	R25	300	11 19/64"	26	1 1/32"	3.35		53089			
	R28	300	11 19/64"	26	1 1/32"	3.25		53085			
	R32	300	11 19/64"	26	1 1/32"	3.15		53083			
	Thread	Carbide dimension				L		D		Weight [kg]	Code No.
		Gauge		Front		[mm]	[in]	[mm]	[in]		
		[No.]	[mm]	[No.]	[mm]						
											
	R25	4	6.3	1	6.3	267	10 25/64	26	1 1/32"	1.63	53070
	R28	4	6.3	1	6.3	267	10 25/64	26	1 1/32"	1.54	53071
	R32	4	6.3	1	6.3	267	10 25/64	26	1 1/32"	1.45	53072
Pilot rod L					D		Weight [kg]	Code No.			
	[mm]		[ft in]		[mm]	[in]					
											
Shank H22x 108 mm (7/8 x41/4)		800	2'7"	27	1 1/16"	3.35		57205			
		1200	4"	27	1 1/16"	4.40		53703			
		1600	5'3"	27	1 1/16"	5.70		57105			
		2000	6'6"	27	1 1/16"	6.10		57169			
		2400	7'10"	27	1 1/16"	6.95		57116			
		3300	10'10"	27	1 1/16"	10.90		57106			

## Reaming tools

<b>12° Taper</b>											
											
Reaming bit	Carbide dimension				D		Weight [kg]	Code No.			
	Gauge		Front		[mm]	[in]					
	[No.]	[mm]	[No.]	[mm]							
											
	8	12.7	4	9.5	89	3 1/2	2.00	43011			
	8	12.7	4	12.7	102	4	2.30	43012			
	8	14	4	14	115	4 1/2	2.68	43017			
	8	14	4	12.7	127	5	3.50	43013			
Pilot adapter	Thread		L		D		Weight [kg]	Code No.			
			[mm]	[in]	[mm]	[in]					
											
	R32	255	10 3/64"	40	1 37/64"	2.40		53082			
	T38	265	10 25/64"	40	1 37/64"	2.00		53092			
											
	R32	242	9 17/32"			4.00		53084			
	R35	242	9 17/32"			4.10		53093			
	Thread	Carbide dimension				L		D		Weight [kg]	Code No.
		Gauge		Front		[mm]	[in]	[mm]	[in]		
		[No.]	[mm]	[No.]	[mm]						
											
	R32	4	9.5	2	8	240	9 17/32"	41	1 5/8"	2.15	53073
	T38	4	9.5	2	8	240	9 17/32"	41	1 5/8"	2.00	53074

## Reaming tools



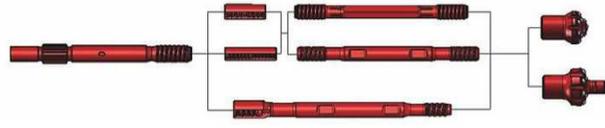
**12°  
Taper**

Reaming bit (Locking thread T12)	Carbide dimension				D		Weight [kg]	Code No.
	Gauge		Front		[mm]	[in]		
	[No.]	[mm]	[No.]	[mm]				
	8	12.7	4	11	102	4"	3.50	43000
	8	12.7	4	12.7	115	4 1/2"	4.30	43002
	8	14	4	12.7	127	5"	5.10	43001

Pilot adapter (Locking thread T12)	Thread	L		D		Weight [kg]	Code No.
		[mm]	[in]	[mm]	[in]		
		R32	304	12"	47	1 7/8"	
	T38	304	12"	47	1 7/8"	4.60	53078
	T45	304	12"	47	1 7/8"	4.20	53079

## Reaming tools



**Reaming Bits**

Reaming bit	Thread	Carbide dimension				D		d		Weight [kg]	Code No.
		Gauge		Front		[mm]	[in]	[mm]	[in]		
		[No.]	[mm]	[No.]	[mm]						
	T38	8	14	7	11	102	4"	51	2"	4.00	63043
		8	14	7	12.7	127	5"	67	2 5/8"	8.80	63044
	T45	8	14	7	12.7	127	5"	73	2 7/8"	8.30	63045
		8	16	7	14	152	6"	102	4"	15.40	63046
	ST58	8	16	8	14	152	6"	89	3 1/2"	13.60	63047
		R38	10	16	9	14	178	7"	76	3"	15.90
T38	10	16	10	14	203	8"	152	6"	34.50	63049	
		R32	8	11	7	9.5	76	3"	29	1 1/8"	2.20
8			12.7	6	11	89	3 1/2"	29	1 1/8"	3.30	63041
R32		8	12.7	6	12.7	102	4"	29	1 1/8"	3.70	63042
		8	14	8	12.7	115	4 1/2"	29	1 1/8"	4.70	63050
R32		8	14	1	11	127	5"	29	1 1/8"	5.70	63051
		8	14	10	12.7	127	5"	29	1 1/8"	5.70	63051





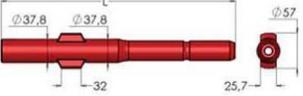
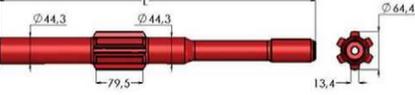
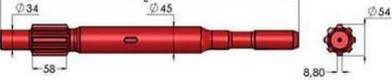
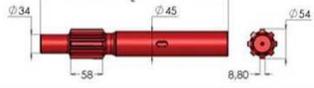
**RG DRILLS**

LIDERES EN REPUESTOS & PARTES

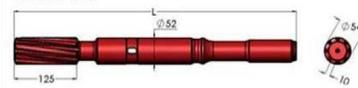
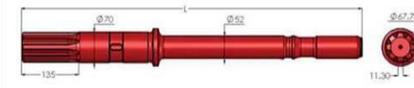
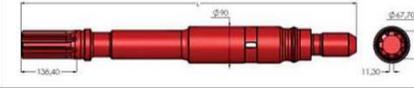


**Shank adapters**

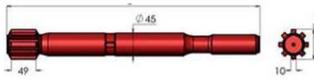
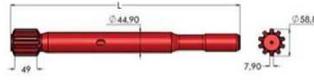
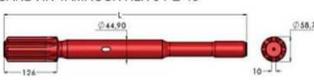
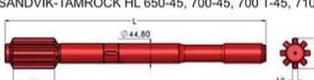
## Shank adapters

ATLAS COPCO		Shank adapters				
Drifter	Flushing Tube	Thread	Length [L]	Weight	Code No.	
	Ø [mm]		[mm]	[kg]		
AC BBC 43, 44, 45, 100 INGERSOLL-RAND 550 ISO 1719	10 14	R 32 R 32	380 380	– –	7803-3100-30 7803-7500-61	
						
AC BBC 51, 52, 54, 120 MONTABERT H	10 10 10	R 32 R 38 T 38	380 390 500	– – –	7803-4200-30 7304-4200-30 7304-4723-01	
						
AC BBE57 INGERSOLL-RAND YH 6	14 19 19	T 38 T 38 T 45	537 495 490	– – –	7304-7502-60 7304-7525-19 7305-7520-01	
						
AC COP 1032 SIG HBM 50, 100, 120		R 32 R 38	340 340	– –	7803-3588-01 7804-3575-01	
						
AC COP 1032 FEMALE SIG HBM 50, 100, 120		T 35	550	–	7307-3576-01	
						
AC COP 1432, 1440, 1532, 1550, 1638, 1838, 2238		R 32 R 38 T 38	435 435 435	3.80 3.95 3.95	7803-3652-01 7304-3652-01 7304-3652-01	
						
AC COP 1432, 1440, 1532, 1550, 1638, 1838, 2238		R 32 T 38	525 525	4.00 4.05	7803-3656-01 7304-3656-01	
						

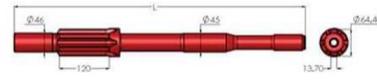
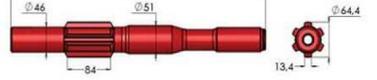
## Shank adapters

ATLAS COPCO		Shank adapters				
Drifter	Flushing Tube	Thread	Length [L]	Weight	Code No.	
AC COP 1432, 1532 FEMALE		R 32 R 38	341 341	4.35 4.25	7803-3670-02 7804-3670-02	
						
AC COP		T 38 T 45 T 51	525 525 525	6.10 6.20 6.80	7304-3655-01 7305-3655-01 7306-3655-02	
						
AC COP 1550 EX, 1838 EX		T 38 T 45	730 730	9.80 10.20	7304-3825-02 7306-3826-02	
						
AC COP 1840		T 45 T 51	565 565	6.90 7.10	7305-3690-02 7306-3690-03	
						
AC COP 4050 EX		ST 68	805	–	7329-3716-01	
						
AC COP 4050 MUX		ST 68	835	26.90	7329-3720-01	
						

## Shank adapters

SANDVIK-TAMROCK					
Shank adapters					
Drifter	Flushing Tube	Thread	Length [L]	Weight	Code No.
SANDVIK-TAMROCK HL 500 S-38, 510 S-38, 510 B, 510 LH 		R 32 R 38 T 38  R 38	460 460 460  500	3.75 4.00 4.00  4.30	7803-7531-01 7804-7531-01 7304-7531-01  7804-7536-01
SANDVIK-TAMROCK HL 550 SUPER M92, 560 SUPER, 510 S-45 		R 38 T 38	500 500	5.30 5.30	7804-7554-01 7304-7554-01
SANDVIK-TAMROCK HLX 5, HLX 5 T 		R 32 R 38 T 38  T 38 T 45	500 500 500  575 575	5.10 5.30 5.30  5.90 6.20	7803-7585-01 7804-7585-01 7304-7585-01  7304-7586-01 7305-7586-01
SANDVIK-TAMROCK HLX 5 PE-45 		R 32 T 38	575 575	5.10 5.30	7803-7664-01 7304-7664-01
SANDVIK-TAMROCK HL 600-45 		R 38 T 38 T 45	600 600 600	6.10 6.10 6.30	7803-7532-01 7304-7532-01 7305-7532-01
SANDVIK-TAMROCK HL 600-52 		T 45 T 51	650 650	7.70 8.30	7305-7551-01 7306-7551-02
SANDVIK-TAMROCK HL 645 		T 38 T 45	600 600	5.90 6.50	7304-7540-02 7305-7541-02
SANDVIK-TAMROCK HL 650-45, 700-45, 700 T-45, 710-45, 800 T-45 		T 38 T 45	600 600	7.05 7.25	7304-7576-01 7305-7576-01

## Shank adapters

FURUKAWA / BOART / INGERSOLL-RAND					
Shank adapters					
Drifter	Flushing Tube	Thread	Length [L]	Weight	Code No.
FURUKAWA HD 300 	16 16	T 38 T 45	655 655	6.50 6.70	7304-7526-80 7305-7526-80
FURUKAWA HD 609 		T 38 T 45	620 620	6.10 6.25	7304-4791-01 7305-4791-01
FURUKAWA HD 612 		T 45	710	—	7305-7414-01
BOART HD 125, HE 125, HD 150, HE 150 		R 38 T 38	495 495	5.50 5.50	7804-4993-01 7304-4993-01
INGERSOLL-RAND YH 65 RP, YH 70 RP, YH 80 RP 	19	T 45	700	7.90	7305-7546-19
INGERSOLL-RAND YH 80 	19 19	T 38 T 45	495 500	—	7304-7525-19 7305-7525-19