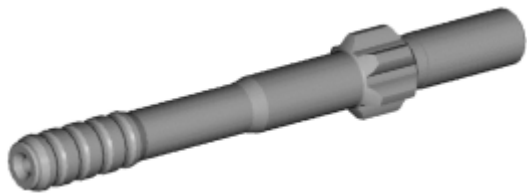


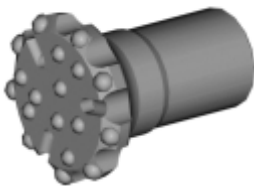
KRHAM

MATERIAL DE PERFORACIÓN DE MARTILLO EN CABEZA



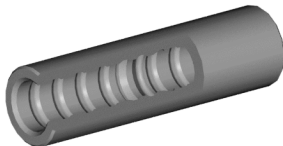
Adaptadores de culata

2-20



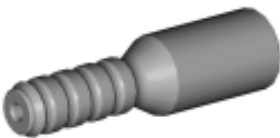
Brocas de botones

21-25



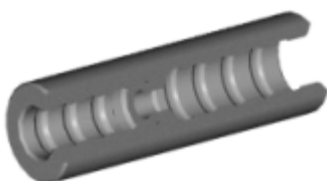
Manguitos

26



Adaptadores de brocas

27

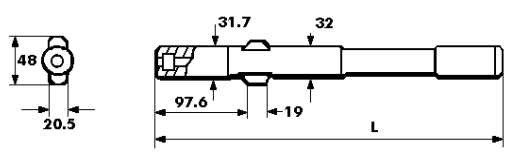
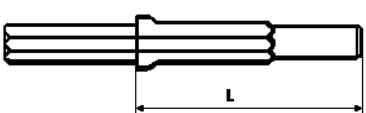


Manguitos de reducción

28

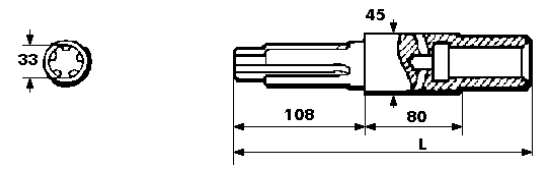
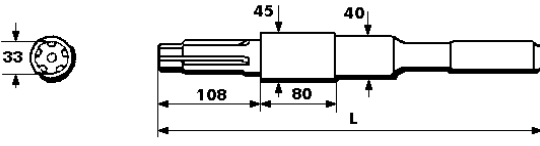
Adaptadores de Culata

R25 (1")

Adaptador 25mm (1")	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso kg
	381	BBC 44,100 Gardner-Denver 93 Ingersoll 350 Joy 400 RR Montabert TA 35, LC 50	152501	10	2.0
	255	Barra Culata	152502	8	1.6

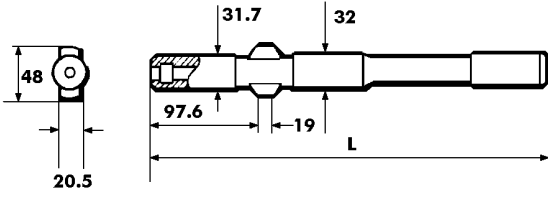
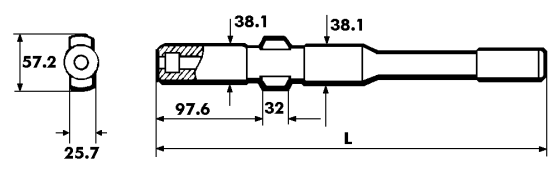
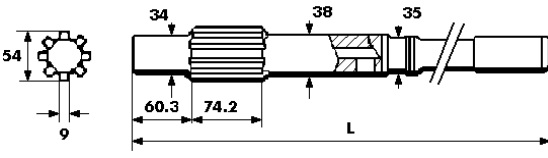
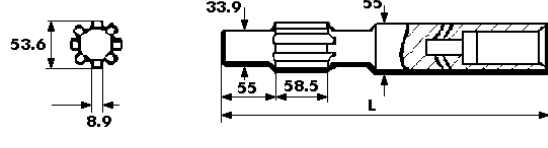
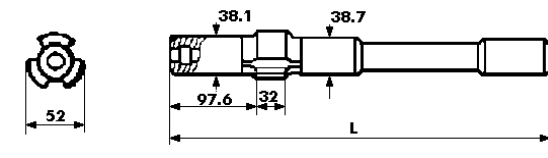
Adaptadores de Culata

R28 (1" 1/8)

Adaptador 28mm (1" 1/8)	Long. mm	Martillo	Nº Artículo	Tubo barrido	Peso Kg.
	244	Cop 1028	152801	-	1.7
	400	Cop 1028	152802	-	2.5

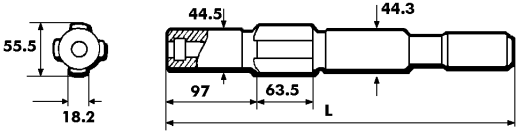
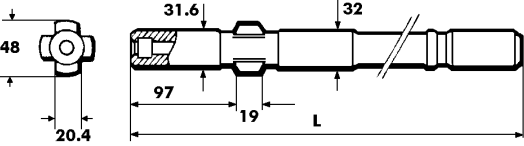
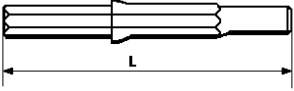
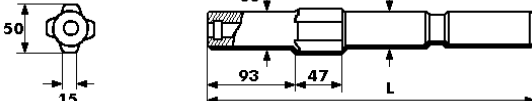
Adaptadores de Culata

R32 (1" 1/4)

Adaptador 32mm (1" 1/4)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso kg
	381	BBC 44, 100 Gardner-Denver 93 Ingersoll 350 Joy 400 RR Montabert TA 35, LC 50	153201	10	2.0
	380	BBC 51, 52, 54, 120 Böhler HM 751, HM 755 Montabert H40, H50, H60	153202	10	2.6
	574	Cop 1038 HL	153203	-	4.4
	339	Cop 1032 HD	153204	-	4.5
	380	Cop 125, 130, 131	153205	14.3	2.7

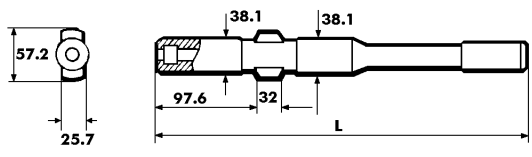
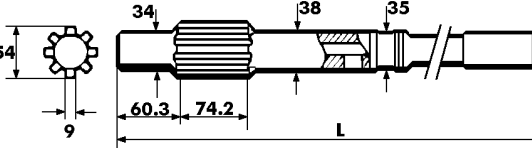
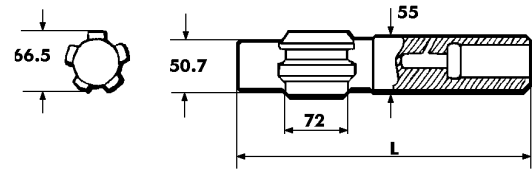
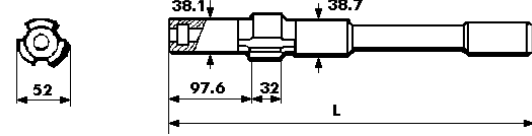
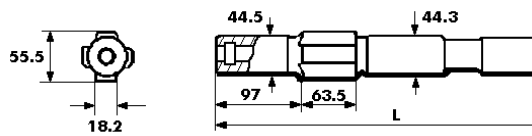
Adaptadores de Culata

R32 (1"1/4)

Adaptador 32mm (1"1/4)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	343	Ingersoll-Rand URD 475, 550 VL 120, 140 Furukawa MD 120, HD 120 Gardner-Denver PR 123, 133 Le-Roi 155, 455R, LHD 155 Tamrock L600, L750 Toyo PR 220	153206	14.3	3.6
	380	Tamrock L400, L500	153207	10	4.3
	338	Barra Culata	153208	8	1.8
	347	YD 90	153209	10	2.1

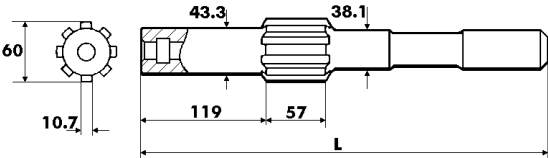
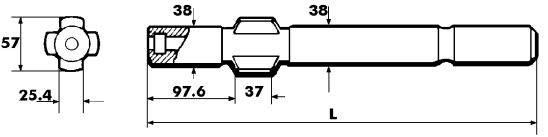
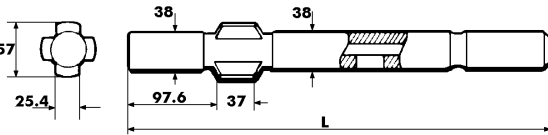
Adaptadores de Culata

R38 (1" 1/2)

Adaptador 38mm (1" 1/2)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	390	BBC 51, 52, 54, 120 Bölher HM 751, HM 755 Montabert H40, H50, H60	153801	10	2.6
	462	Cop 1038 HD	153802	-	5.0
	330	Cop 126	153803	-	2.2
	380	Cop 125, 130, 131	153805	14.3	2.7
	343	Ingersoll-Rand URD 475, 550 VL 120, 140 Furukawa MD 120, HD 120 Gardner-Denver PR 123, 133 Le-Roi 155, 455R, LHD 155 Tamrock L600, L750 Toyo PR 220	153806	14.3	3.6

Adaptadores de Culata

R38 (1" 1/2)

Adaptador 38mm (1" 1/2)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	410	Joy VCR 260, 261, 360	153807	16	3.9
	390	Tamrock HL438, HL538	153808	12.7	3.0
	450	Tamrock HL438, HL538	153809	-	4.3

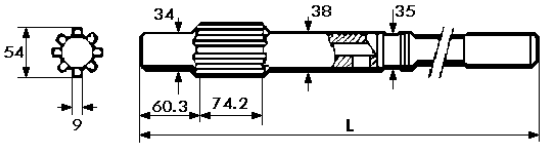
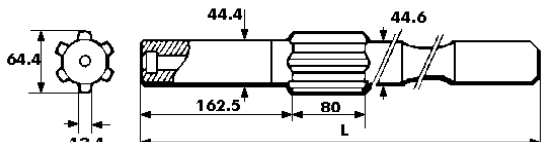
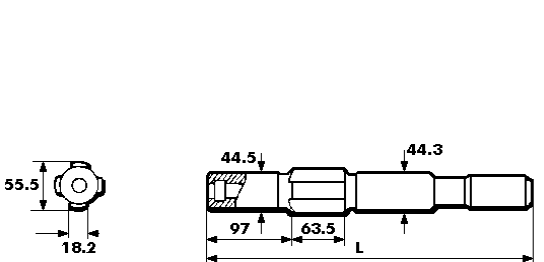
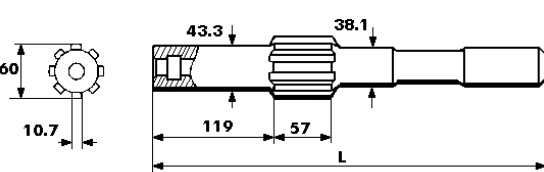
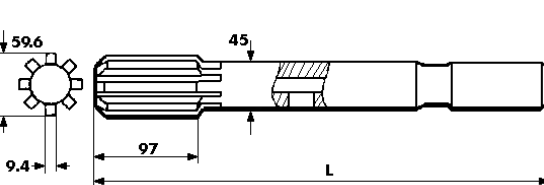
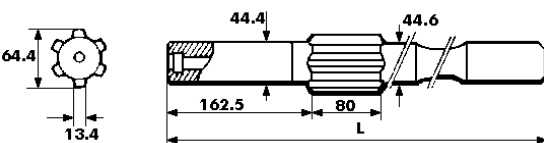
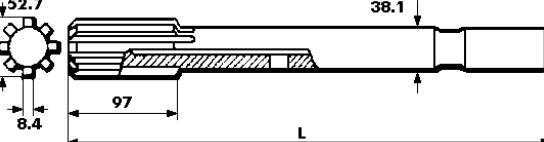
Adaptadores de Culata

T38 (1" 1/2)

Adaptador 38mm (1" 1/2)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	496	Bólher HD 125, HD 150	103801	-	4.1
	501	BBC 51, 52, 54, 120 Bólher HM 751, HM 755 Montabert H40, H50, H60	103802	10	2.6
	380	Cop 125, 130, 131	103803	14.3	2.7
	557	Cop 150	103804	16	6.7
	573	Cop 1038 HL	103805	-	5.0
	407	Cop 131 EB	103806	14.3	3.4
	370	Cop 115, 932 MC	103807	10	3.0

Adaptadores de Culata

T38 (1" 1/2)

Adaptador 38mm (1" 1/2)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	499	Cop 1038 HB ,1036 HB, 1238	103808	-	4.4
	530	BBE 56,57 Montabert H 100 Ingersoll 401	103809	14.3	5.3
	343	Ingersoll-Rand URD 475, 550 VL 120, 140 Furukawa MD 120, HD 120 Gardner-Denver PR 123, 133 Le-Roi 155, 455R, LHD 155 Tamrock L600, L750 Toyo PR 220	103810	14.3	3.6
	410	Joy VCR 260, 261, 360	103811	16	3.9
	474	Montabert HC 120	103812	-	5.6
	447	BBE 56, 57, Montabert H 100	103813	14.3	4.5
	498	Montabert HC 80	103814	-	4.9

Adaptadores de Culata

T38 (1" 1/2)

Adaptador 38mm (1" 1/2)	Long. mm	Martillo	Nº Artículo	Tubo barrido	Peso Kg.
	390	Tamrock HL 438, HL 538	103815	12.7	3.0
	450	Tamrock HL 438, HL 538	103816	-	4.3
	555 464	Tamrock HL 500	103817 103824	- -	4.0 3.2
	599	Tamrock HL 600	103818	-	6.2
	486	Ingersoll YH 65	103819	19	5.0
	508	Cop 938 MS	103821	-	4.4
	600	Tamrock HL 645	103822	-	6.5

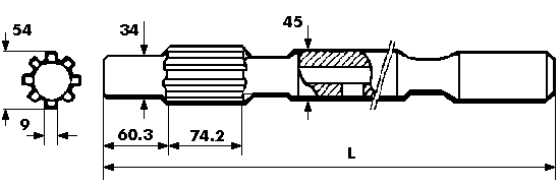
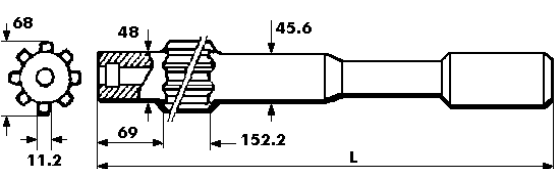
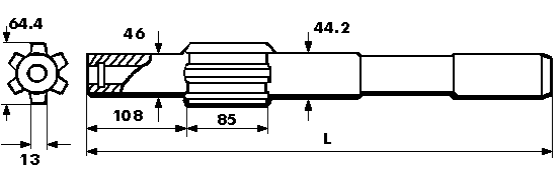
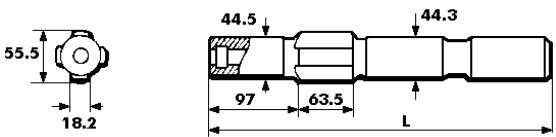
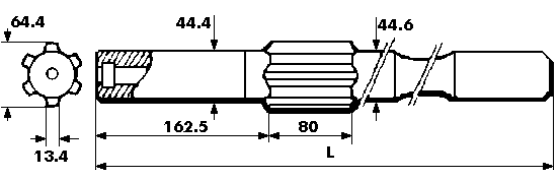
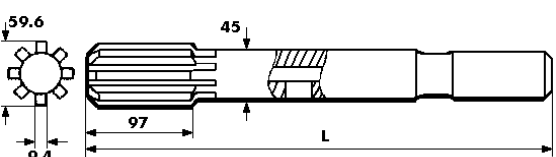
Adaptadores de Culata

T38 (1" 1/2)

Adaptador 38mm (1" 1/2)	Long. mm	Martillo	Nº Artículo	Tubo barrido	Peso Kg.
	608	Barra Culata	103823	-	3.6
	447	Montabert HC 40	103825	-	3.5
	482	Furukawa PD 200	103826	14	5.3
	347	YD 90	103827	10	2.5
	393	VL-140	103828	14.3	4.2
	439	Cop 1838	103829	-	4.0
	575	Cop 1238	103830	-	5.4
	500	Tamrock HL 550 Super, M 92	103831	-	5.2

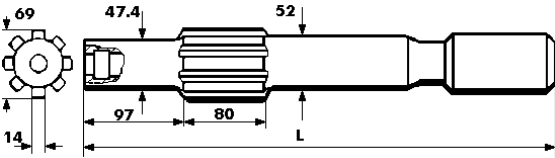
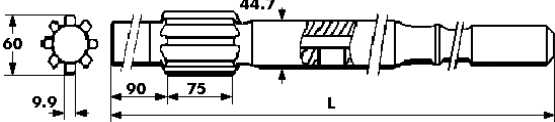
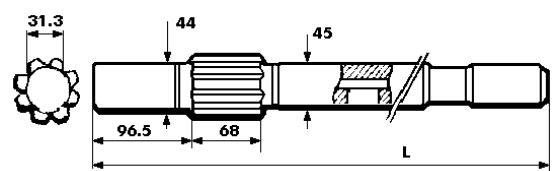
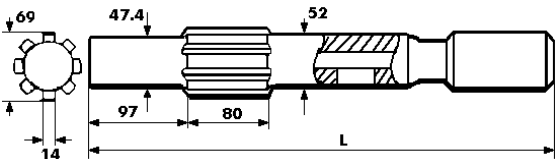
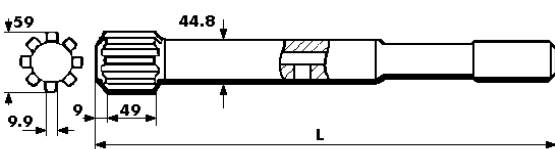
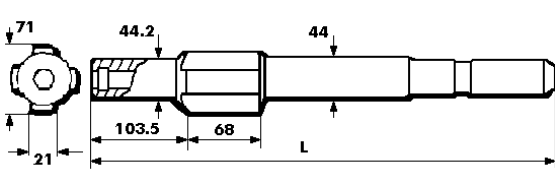
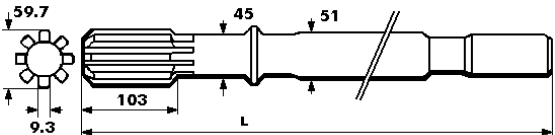
Adaptadores de Culata

T45 (1"3/4)

Adaptador 45mm (1"3/4)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
 <p>Technical drawing of adapter 499. It shows a side view and a cross-section of a gear. Dimensions include: gear outer diameter 54, gear thickness 9, adapter diameter 34, adapter length 60.3, adapter diameter 74.2, and adapter diameter 45. The total length is labeled as L.</p>	499	Cop 1238	104502	-	4.4
 <p>Technical drawing of adapter 557. It shows a side view and a cross-section of a gear. Dimensions include: gear outer diameter 68, gear thickness 11.2, adapter diameter 48, adapter length 69, adapter diameter 45.6, and adapter length 152.2. The total length is labeled as L.</p>	557	Cop 150	104503	16	6.7
 <p>Technical drawing of adapter 486. It shows a side view and a cross-section of a gear. Dimensions include: gear outer diameter 64.4, gear thickness 13, adapter diameter 46, adapter length 108, adapter diameter 85, and adapter diameter 44.2. The total length is labeled as L.</p>	486	Ingersoll YH 65	104504	19	5.3
 <p>Technical drawing of adapter 354. It shows a side view and a cross-section of a gear. Dimensions include: gear outer diameter 55.5, gear thickness 18.2, adapter diameter 44.5, adapter length 97, adapter diameter 63.5, and adapter diameter 44.3. The total length is labeled as L.</p>	354	Ingersoll-Rand URD 475, 550 VL 120, 140 Furukawa MD 120, HD 120 Gardner-Denver PR 123, 133 Le-Roi 155, 455R, LHD 155 Tamrock L600, L750 Toyo PR 220	104505	14.3	3.6
 <p>Technical drawing of adapter 530. It shows a side view and a cross-section of a gear. Dimensions include: gear outer diameter 64.4, gear thickness 13.4, adapter diameter 44.4, adapter length 162.5, adapter diameter 80, and adapter diameter 44.6. The total length is labeled as L.</p>	530	BBE 56, 57 Montabert HL 100 Ingersoll YH 60	104506	14.3	5.3
 <p>Technical drawing of adapter 490. It shows a side view and a cross-section of a gear. Dimensions include: gear outer diameter 59.6, gear thickness 9.4, adapter diameter 45, and adapter length 97. The total length is labeled as L.</p>	490	Montabert HC 120	104508	-	5.6

Adaptadores de Culata

T45 (1"3/4)

Adaptador 45mm (1"3/4)	Long. mm	Martillo	Nº Artículo	Tubo barrido	Peso Kg.
 <p>Technical drawing of adapter 499. Dimensions: 69, 47.4, 52, 97, 80, 14, L.</p>	499	Tamrock HL 850	104509	19	6.1
 <p>Technical drawing of adapter 599. Dimensions: 60, 44.7, 90, 75, 9.9, L.</p>	599	Tamrock HL 600	104510	-	6.2
 <p>Technical drawing of adapter 600. Dimensions: 31.3, 44, 45, 96.5, 68, L.</p>	600	Tamrock HL 645	104512	-	6.5
 <p>Technical drawing of adapter 670. Dimensions: 69, 47.4, 52, 97, 80, 14, L.</p>	670	Tamrock HL 850	104513	-	7.5
 <p>Technical drawing of adapter 555. Dimensions: 59, 44.8, 49, 9.9, 9, L.</p>	555	Tamrock HL 500	104514	-	4.0
 <p>Technical drawing of adapter 482. Dimensions: 71, 44.2, 44, 103.5, 68, 21, L.</p>	482	Furukawa PD 200	104515	14	5.5
 <p>Technical drawing of adapter 670.5. Dimensions: 59.7, 45, 51, 103, 9.3, L.</p>	670.5	Montabert HC 120 R	104517	-	7.5

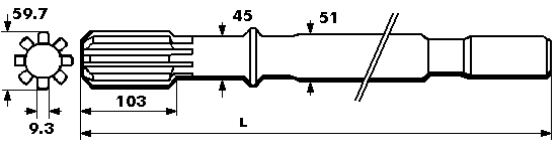
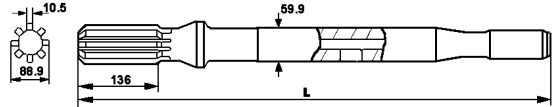
Adaptadores de Culata

T45 (1"3/4)

Adaptador 45mm (1"3/4)	Long. mm	Martillo	Nº Artículo	Tubo barrido	Peso Kg.
	590	Cop 1238	104518	-	5.2
	655	Furukawa HD 300	104519	16	6.7
	670.5	Montabert HC 80 R	104520	-	7.3
	525	Cop 1550,1838	104521	-	6.2
	587.9	Tamrock HL 700	104523	-	8.0
	638	Soosan Mitsui	104524	16	9.0
	495	Ingersoll YH 80 A, YH 65, YH 70	104525	20	7.0

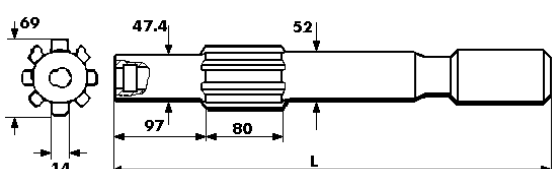
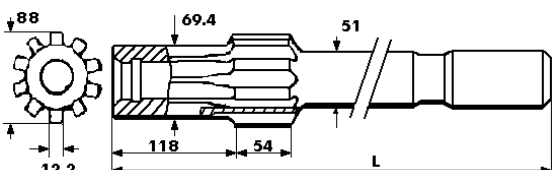
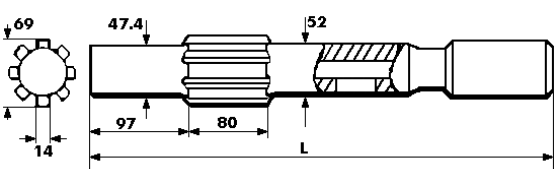
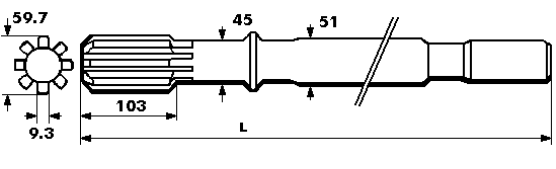
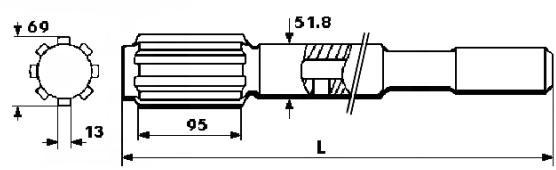
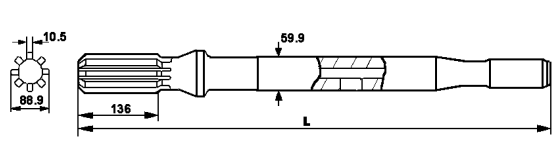
Adaptadores de Culata

T45 (1"3/4)

Adaptador 45mm (1"3/4)	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	771.5	Montabert HC 120 RL	104526	-	9.2
	807	Montabert HC 160 R	104527	-	10.3

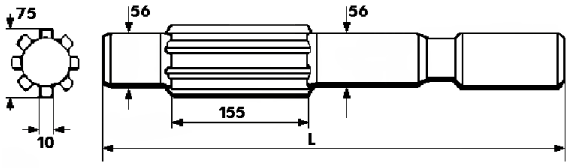
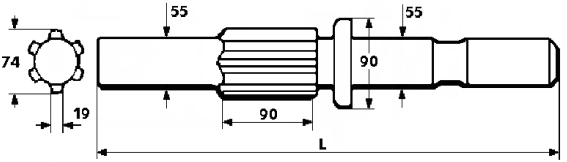
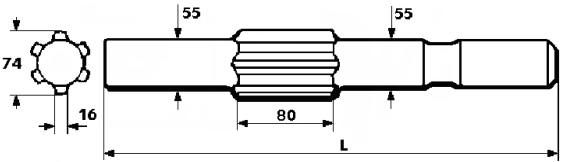
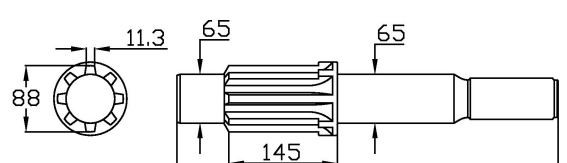
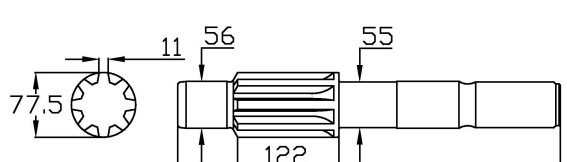
Adaptadores de Culata

T51 (2")

Adaptador 51mm (2")	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	499	Tamrock HL 850	105101	19	7.0
	507	Joy VCR 280	105102	32	8.1
	670	Tamrock HL 850	105103	-	7.5
	670.5	Montabert HC 120 R	105104	-	8.8
	587.9	Tamrock HL 700	105106	-	8.2
	807	Montabert HC 160 R	105107	-	10.4

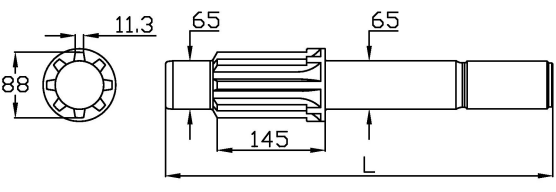
Adaptadores de Culata

H55

Adaptador 55mm	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	500	Klemm 4026/4053	155501	-	10.5
	581	Krupp HB 30A, 40A	155502	-	12.0
	501	Krupp HB 103	155503	-	9.4
	510	Eurodrill HD 4008	155507	-	10
	461	Eurodrill HD 2004	155508	-	9

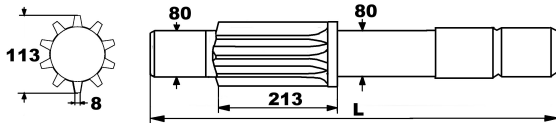
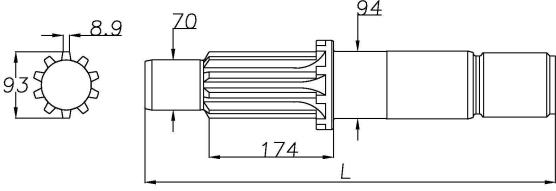
Adaptadores de Culata

H64

Adaptador 64mm	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	520	Eurodrill HD 4008	156404	-	15

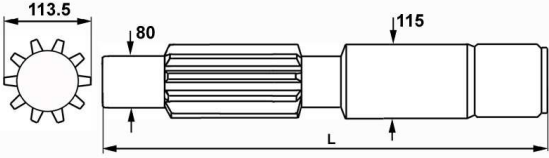
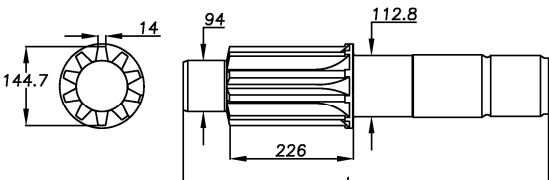
Adaptadores de Culata

H90

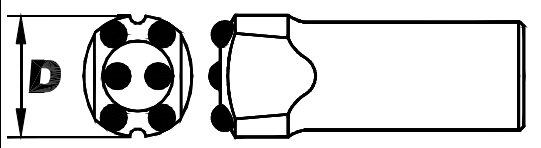
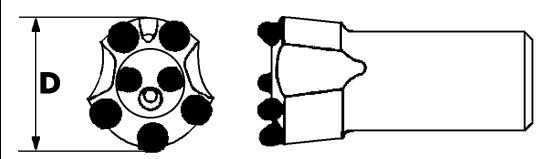
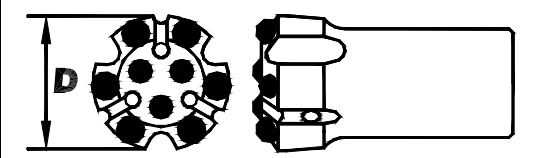
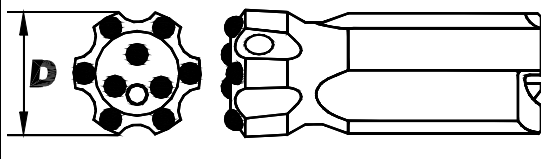
Adaptador 90mm	Long. mm	Martillo	Nº Artículo	Tubo barrido	Peso Kg.
	752	Krupp HB-50	1509002	-	35
	575	Eurodrill HD5012 / HD5012-3	1509003	-	25

Adaptadores de Culata

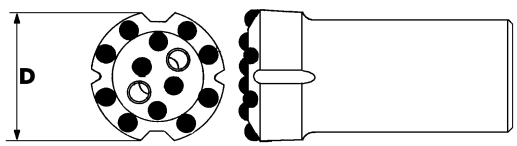
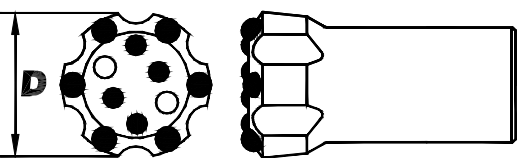
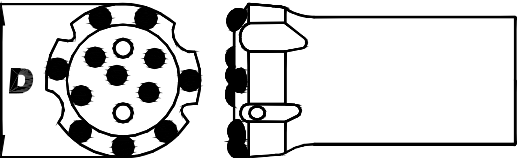
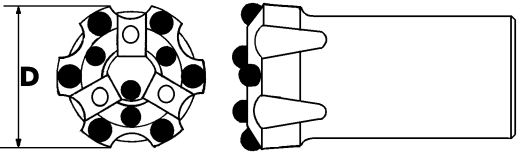
HI 12

Adaptador 112mm	Long. mm	Martillo	N° Artículo	Tubo barrido	Peso Kg.
	690	Klemm KD 1624	1511201	-	40.5
	669	Klemm KD 1828R	1511202	-	38

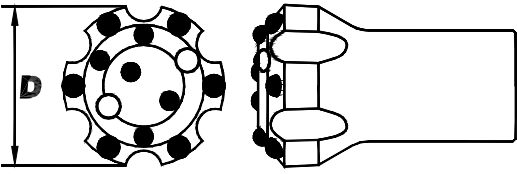
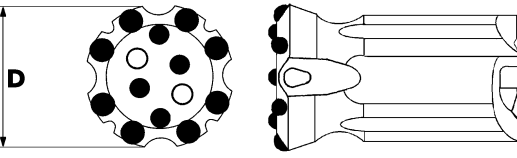
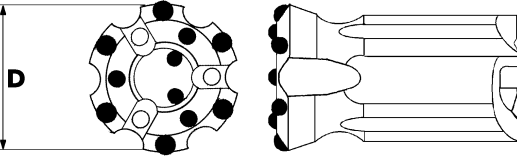
Brocas de botones

Brocas	Diámetro		Rosca	Botones		N° Artículo	Peso Kg.	
	mm	Pulg.		Esférico Parabólico	Balístico			
	38	1" 1/2	R-25	*	*	32503801	0.4	
	43	1" 11/16	R-25	*	*	32504301	0.55	
	45	1" 3/4	R-25	*	*	32504501	0.7	
	38	1" 1/2	R-28	*	*	32803801	0.45	
	41	1" 5/8	R-28	*	*	32804101	0.55	
	43	1" 11/16	R-28	*	*	32804301	0.65	
	43	1" 11/16	R-32	*	*	33204301	0.55	
	45	1" 3/4	R-32	*	*	33204501	0.55	
	48	1" 7/8	R-32	*	*	33204802	0.75	
	51	2"	R-32	*	*	33205105	0.95	
		38	1" 1/2	R-25	*	*	32503802	0.5
		51	2"	R-25	*	*	32505101	0.7
48		1" 1/2	R-32	*	*	33204801	0.8	
51		2"	R-32	*	*	33205106	1.0	
	51	2"	R-32	*	*	33205101	0.9	
	57	2" 1/4	R-32	*	*	33205704	1.1	
	57	2" 1/4	R-25	*	*	32505702	1.1	
	51	2"	R-32	*	*	33205107	1.1	
	57	2" 1/4	R-32	*	*	33205702	1.5	

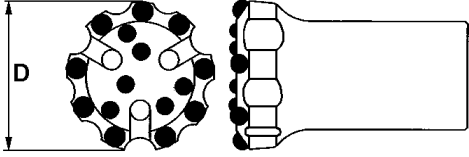
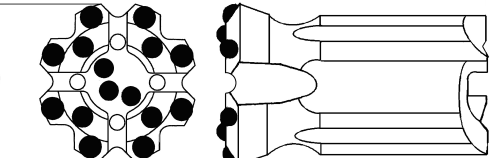

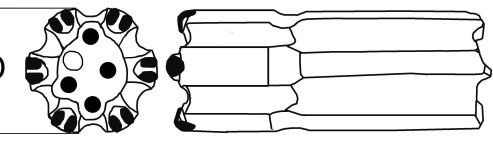

Brocas de botones

Brocas	Diámetro		Rosca	Botones		N° Artículo	Peso Kg.
	mm	Pulg.		Esférico Parabólico	Balístico		
		59	2" 1/3	R-32	*	*	33205901
64		2" 1/2	R-32	*	*	33206402	1.7
64		2" 1/2	R-38	*	*	33806401S	1.9
59		2" 1/3	T-38	*	*	33805901	1.6
64		2" 1/2	T-38	*	*	33806404	1.9
64		2" 1/2	T-38	*	*	33806404	1.9
	70	2" 3/4	R-32	*	*	33207003	1.9
	70	2" 3/4	R-38	*	*	33807002S	2.1
	70	2" 3/4	T-38	*	*	33807002	2.1
	70	2" 3/4	T-45	*	*	34507005	2.2
	76	3"	R-32	*	*	33207601	2.1
	76	3"	R-38	*	*	33807601S	2.4
	76	3"	T-38	*	*	33807605	2.4
	76	3"	T-45	*	*	34507604	2.6
	70	2" 3/4	R-32	*	*	33207001	1.9
	70	2" 3/4	R-38	*	*	33807001S	2.1
	70	2" 3/4	T-38	*	*	33807001	2.1
	76	3"	T-38	*	*	33807601	2.4
	89	3" 1/2	T-38	*	*	33808904	3.3
	70	2" 3/4	T-45	*	*	34507001	2.3
	76	3"	T-45	*	*	34507603	2.8
	80	3" 1/7	T-45	*	*	34508001	2.1
	89	3" 1/2	T-45	*	*	34508905	3.7
	80	3" 1/7	T-51	*	*	35108001	2.4
	89	3" 1/2	T-51	*	*	35108904	2.6

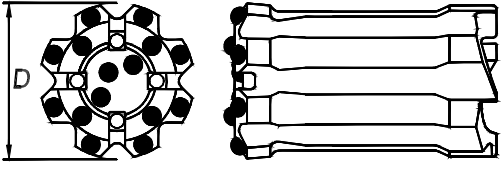
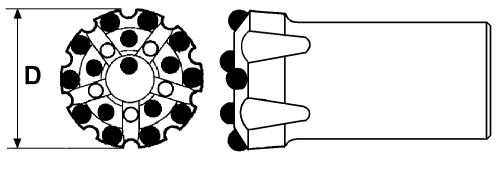
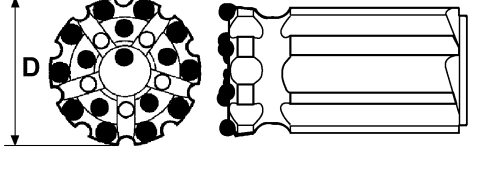
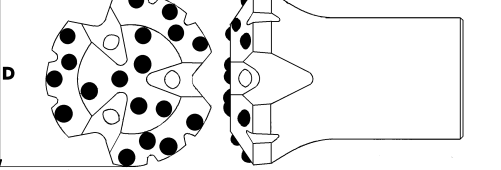
Brocas de botones

Brocas	Diámetro		Rosca	Botones		N° Artículo	Peso kg	
	mm	Pulg.		Esférico Parabólico	Balístico			
		89	3" ½	T-38	*	*	33808909	3.2
89		3" ½	T-45	*	*	34508909	3.0	
82 89		3" 2/7 3" ½	T-51 T-51	* *	* *	35108205 35108909	2.6 3.1	
	64 70 76	2" ½ 2" ¾ 3"	R-32 R-32 R-32	* * *	* * *	33206404 33207002 33207602	2.2 2.4 2.7	
	70 76	2" ¾ 3"	R-38 R-38	* *	* *	33807004S3 3807603S	2.4 3.0	
	64 70 76 89	2" ½ 2" ¾ 3" 3" ½	T-38 T-38 T-38 T-38	* * * *	* * * *	33806405 33807003 33807607 33808906	2.4 2.7 3.0 3.8	
	70 76 89	2" ¾ 3" 3" ½	T-45 T-45 T-45	* * *	* * *	34507003 34507606 34508901	2.9 3.2 3.8	
		64 89	2" ½ 3" ½	R-32 R-32	* *	* *	33206403 33208903	2.2 3.0
		64 70 76 89	2" ½ 2" ¾ 3" 3" ½	R-38 R-38 R-38 R-38	* * * *	* * * *	33806402S 33807003S 33807602S 33808902S	2.6 2.9 3.1 3.9
		76 89	3" 3" ½	T-38 T-38	* *	* *	33807608 33808907	3.1 3.9
		76 89	3" 3" ½	T-45 T-45	* *	* *	34507607 34508907	3.4 4.2
		89	3" ½	T-51	*	*	35108905	4.4

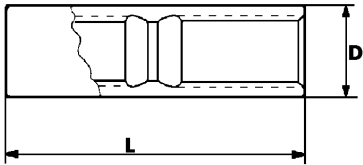
Brocas de botones

Brocas	Diámetro		Rosca	Botones		Nº Artículo	Peso kg
	mm	Pulg.		Esférico Parabólico	Balístico		
	89	3" 1/2	R-32	*		33208901	2.7
	102	4"	R-32	*		33210201	3.2
	89	3" 1/2	R-38	*		33808901S	2.9
	89	3" 1/2	T-38	*		33808905	2.9
	102	4"	T-38	*		33810201	3.4
	115	4" 1/2	T-38	*		33811502	3.8
	89	3" 1/2	T-45	*		34508906	2.9
	102	4"	T-45	*		34510202	3.8
	115	4" 1/2	T-45	*		34511502	4.2
	127	5"	T-45	*		34512701	4.5
	89	3" 1/2	T-51	*		35108903	2.9
	102	4"	T-51	*		35110202	4.1
	115	4" 1/2	T-51	*		35111502	4.3
	127	5"	T-51	*		35112701	4.5
	76	3"	T-38	*		33807608	3.1
	89	3" 1/2	T-38	*		33808908	4
	102	4"	T-38	*		33810203	6.0
	115	4" 1/2	T-38	*		3338115?	6.4
	127	5"	T-38	*		3338127?	6.9
	76	3"	T-45	*		34507607	3.4
	80	3" 1/7	T-45	*		34508002	3.7
	82	3" 2/7	T-45	*		34508204	4
	85	3" 1/3	T-45	*		34508505	4.1
	89	3" 1/2	T-45	*		34508908	4.2
102	4"	T-45	*		34510203	6.0	
115	4" 1/2	T-45	*		34511503	6.4	
127	5"	T-45	*		34512702	6.9	
	80	3" 1/7	T-51	*		35108002	3.7
	82	3" 2/7	T-51	*		35108202	3.9
	89	3" 1/2	T-51	*		35108906	4.2
	102	4"	T-51	*		35110203	6.1
	115	4" 1/2	T-51	*		35111503	6.5
	127	5"	T-51	*		35112702	7.0
	76	3"	T-45			34507620	3

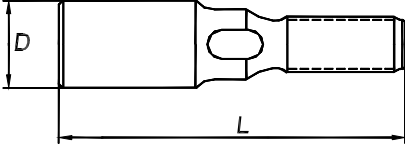
Brocas de botones

Brocas	Diámetro		Rosca	Botones		Nº Artículo	Peso kg
	mm	Pulg.		Esférico Parabólico	Balístico		
		89 102 115	4" 4" ½	T-45 T-45 T-45	*		34508913 34510213 34511513
	89 102 115 127 140 152 162	3" ½ 4" 4" ½ 5" 5" ½ 6	T-51 T-51 T-51 T-51 T-51 T-51 T-51	*		35108911 35110213 35111508 35112704 35114002 35115204 35116201	5 6 7 8 11 13 15
	92 102 115 127 140 152	3" 5/8 4" 4" ½ 5" 5" ½ 6	KT-60 KT-60 KT-60 KT-60 KT-60 KT-60	*		36009201 36010213 36011513 36012701 36014013 36015201	5.5 8 11 14 17 19
	102 115 127	4" 4" ½ 5"	ST-58 ST-58 ST-58	*		35810201 35811501 35812701	6.2 6.6 7.0
	102 115 127	4" 4" ½ 5"	ST-68 ST-68 ST-68	*		36810201 36811501 36812701	5.8 6.1 6.4
	115 127	4" ½ 5"	ST-68 ST-68	*		36811502 36812702	6.7 7.1
	127	5"	T-2000	*		32012701	6.5

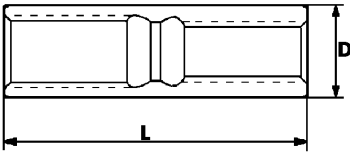
Manguitos

Manguitos	Longitud mm	Diámetro mm	Rosca	N° Artículo
	140	34	R-25	2252500
	150	41	R-28	2282800
	150	44	R-32	2323200
	170	55	R-38	238380S0S
	191	55	T-38	2383800
	209	64	T-45	2454500
	230	77	T-51	2515100
	305	85.5	T-2000	22000200000

Adaptadores de broca

Adaptadores de Broca	Longitud mm	Diámetro mm	Rosca Hembra	Rosca Macho	N° Artículo
	166	46	R-25	R-32	2253201
	183	54.5	R-32	R-25	2253210
	200	55	R-32	T-38	2323801
	191	55	T-38	R-32	2323810
	224	55	R-38	T-45	238450S1
	218	62	T-38	T-38	2383801
	267	55	T-38	T-45	2384501
	225	64	T-45	T-38	2384510
	218	68	T-45	T-45	2454501
	285	63	T-45	T-51	2455101
	285	71	T-51	T-45	2455110
	284	90	ST-58	ST-68	25868001

Manguitos de Reducción

Manguitos de Reducción	Longitud mm	Diámetro mm	Rosca	Rosca	N° Artículo
	149	46	R-25	R-32	2253202
	178	55	R-32	R-38	2323800S
	178	55	R-32	T-38	2323800
	180	55	R-28	T-38	2283800
	200	55	R-38	T-38	238380S0
	210	64	T-38	T-45	2384500
	224	77	T-45	T-51	2455100