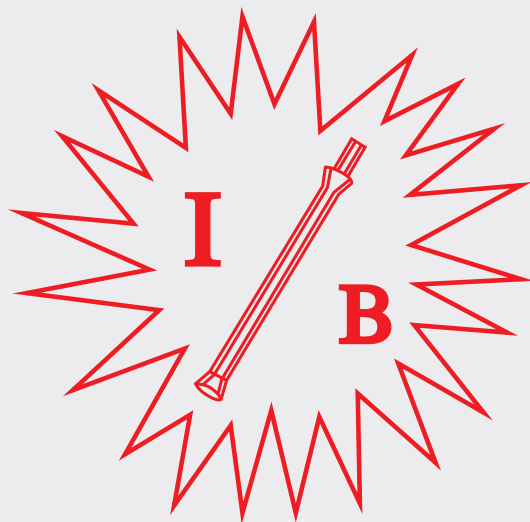




INDELBROM DO BRASIL

PRODUTOS PARA PERFURAÇÃO DE ROCHAS

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A **Indelbrom do Brasil** é uma empresa de produtos para perfuração de rochas localizada no interior do estado do Rio de Janeiro fundada em 1978.

A qualidade dos nossos produtos e a confiança no seu desempenho podem ser confirmadas pelos nossos diversos clientes nacionais e internacionais.

Nossa fabricação conta com equipamentos de alta tecnologia, tratamento térmico, e laboratório de controle de qualidade, contribuindo para manter nosso alto padrão de qualidade.



Nosso departamento de vendas possui uma frota de carros própria para entrega de produtos e visitas a clientes em todo o território nacional.

Agregando preço e qualidade nossa empresa é destaque no ramo de produtos para mineração em âmbito nacional e vem aumentando sua participação nos mercados internacionais.



Nossa empresa fabrica e fornece produtos de alta qualidade com o objetivo de atender as expectativas de todos seus clientes através do comprometimento com os melhores requisitos de qualidade.

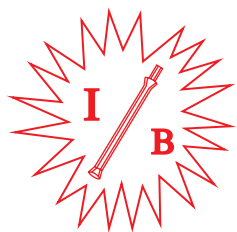


INDELBROM DO BRASIL

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☎ (22) 99227-2965

INDELBROM DO BRASIL S/A.
 Av. José de Alencar, 103
 Sumidouro, Rio de Janeiro
 28637-000

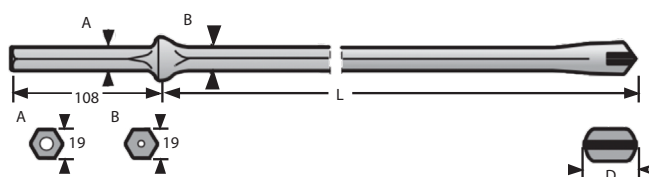




INDELBROM DO BRASIL

Brocas Integrais

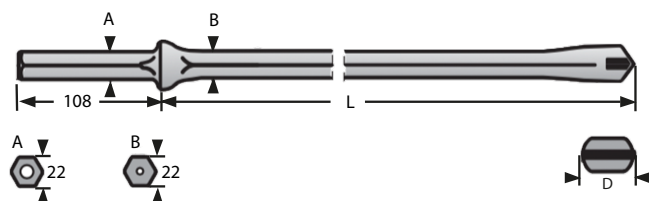
108x19mm (4 1/4" x 3/4")



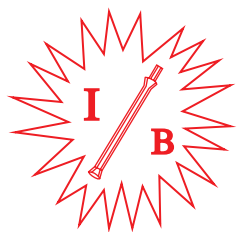
COMPRIIMENTO_(L) DIÂMETRO_(D) COD.

SÉRIE	MM	FT/IN	MM	
21	500	1' 7"	29	0305029
	800	2' 7"	28	0308028
	1200	3' 11"	27	0312027
	1600	5' 3"	27	0316027
	2400	7' 10"	26	0324026

108x22mm (4 1/4" x 7/8")



11	400	1' 4"	35	0204035
	800	2' 7"	34	0208034
	1600	5' 3"	33	0216033
	2400	7' 10"	32	0224032
	3200	10' 6"	31	0232031
	4000	13' 1"	30	0240030
	4800	15' 9"	29	0248029
12	400	1' 4"	41	0104041
	800	2' 7"	40	0108040
	1600	5' 3"	39	0116039
	2400	7' 10"	38	0124038
	3200	10' 6"	37	0132037
	4000	13' 1"	36	0140036
	4800	15' 9"	35	0148035
	5600	18' 4"	34	0156034
	6400	21' 0"	33	0164033
	7200	23' 7"	32	0172032
	8000	26' 3"	31	0180031
14	500	1' 7"	32	0405032
16	600	2' 0"	35	0506035
	1200	3' 11"	34	0512034
	1800	5' 11"	33	0518033



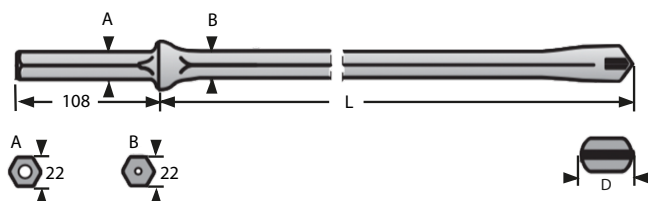
INDELBROM DO BRASIL

COMPIMENTO_(L) DIÂMETRO_(D) COD.

SÉRIE MM FT/IN MM

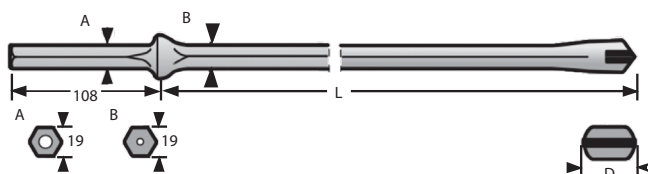
108x22mm (4 1/4" x 7/8")

17	600	2' 0"	41	0606041
	1200	3' 11"	40	0612040
	1800	5' 11"	39	0618039
18	400	1' 4"	35	0704035
	800	2' 7"	34	0708034
	1200	3' 11"	33	0712033
	1600	5' 3"	32	0716032
	2000	6' 7"	31	0720031



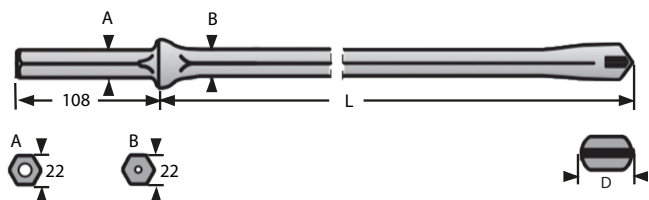
108x22mm (4 1/4" x 3/4") **Medida Especial**

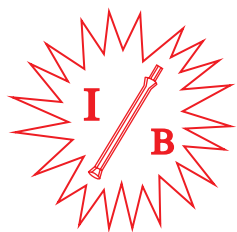
500	1' 7"	28	0305028
1200	3' 11"	28	0312028
3200	5' 3"	25	0332025



108x22mm (4 1/4" x 7/8") **Medida Especial**

400	1' 4"	32	0204032
800	2' 7"	32	0208032
800	5' 3"	41	0108041
1200	3' 11"	32	0212032
1200	3' 11"	39	0113029
1200	3' 11"	41	0612041
1400	4' 7"	39	0114039
1600	5' 3"	34	0116034
1600	5' 3"	38	0116038
3200	10' 6"	34	0132034
4000	13' 1"	34	0140034
4800	15' 9"	34	0148034
5600	18' 4"	34	0156034
6400	21' 0"	34	0164034





INDELBROM DO BRASIL

Brocas Conificadas

108x19mm (4 1/4" x 3/4") 6°



COMPRIMENTO_(L)

MM FT/IN

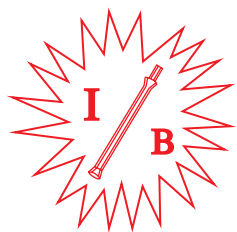
COD.

400	1' 4"	0800041
500	1' 7"	0800051
600	2' 0"	0800061
700	2' 3"	0800071
800	2' 7"	0800081
1200	3' 11"	0800121
1600	5' 3"	0800161

108x22mm (4 1/4" x 7/8") 6°



400	1' 4"	0800040
500	1' 7"	0800050
610	2' 0"	0800060
700	2' 3"	0800070
800	2' 7"	0800080
900	3' 0"	0800090
1000	3' 3"	0800100
1220	4' 0"	0800120
1300	4' 3"	0800130
1400	4' 7"	0800141
1700	5' 7"	0800170
1830	6' 0"	0800180
2000	6' 7"	0802000
2200	7' 2"	0800220
2440	8' 0"	0800240
2600	8' 6"	0800260
2800	9' 2"	0800280
3000	10' 0"	0800300
3200	10' 5"	0800320
3400	11' 0"	0800340
3600	11' 9"	0800360
3700	12' 1"	0800370
3800	12' 5"	0800380



INDELBROM DO BRASIL

108x22mm (4 1/4" x 7/8") 6°



COMPRIMENTO_(L)

MM FT/IN

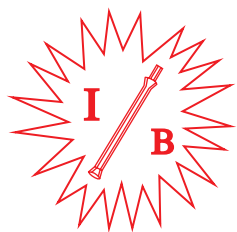
COD.

4000	13' 0"	0800400
4200	13' 9"	0800420
4400	14' 5"	0800440
4600	15' 1"	0800460
4700	15' 5"	0800470
4800	15' 8"	0800480
5000	16' 4"	0800500
5600	18' 4"	0800560
6000	19' 8"	0800600
6200	20' 4"	0800620
6400	21' 0"	0800640
7200	23' 7"	0800720
8000	26' 3"	0800800

108x22mm (4 1/4" x 7/8") 11°



400	1' 4"	0802040
500	1' 7"	0802050
610	2' 0"	0810060
800	2' 7"	0802080
1220	4' 0"	0800122
1400	4' 7"	0802140
1600	5' 3"	0810160
1830	6' 0"	0802180
2440	8' 0"	0800241
3200	10' 5"	0802320
4000	13' 0"	0802400
4800	15' 9"	0802480
5600	15' 8"	0802560
6400	21' 0"	0802640
7200	23' 7"	0802720
8000	26' 3"	0802800



INDELBROM DO BRASIL

Brocas Conificadas Carburizadas

108x19mm (4 1/4" x 3/4") 6°



108x22mm (4 1/4" x 7/8") 6°



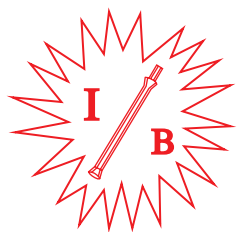
COMPRIMENTO_(L)

MM FT/IN

COD.

500	1' 7"	0800151
600	2' 0"	0800062
800	2' 7"	0800181
1000	3' 3"	0801101
1220	4' 0"	0801121
1600	5' 3"	0801161
2400	8' 0"	0801241
3000	10' 0"	0801300
3200	10' 5"	0800321

400	1' 4"	0801040
500	1' 7"	0801050
610	2' 0"	0801060
800	2' 7"	0801080
900	3' 0"	0801090
1000	3' 3"	0801100
1220	4' 0"	0801120
1400	4' 7"	0801140
1600	5' 3"	0801160
1830	6' 0"	0801180
1900	6' 5"	0801190
2000	6' 7"	0800200
2440	8' 0"	0801240
3200	10' 5"	0801320
4000	13' 0"	0801400



INDELBROM DO BRASIL

108x22mm (4 1/4" x 7/8") 11°

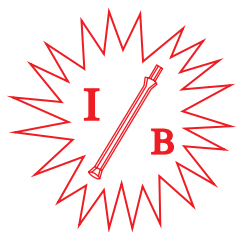


COMPRIMENTO_(L)

MM FT/IN

COD.

400	1' 4"	0820400
500	1' 8"	0811150
610	2' 0"	0820600
800	2' 0"	0811180
900	2' 0"	0811190
1220	4' 0"	0812120
1400	4' 7"	0820140
1600	5' 3"	0812160
1830	6' 0"	0812180
2440	8' 0"	0812240
3200	10' 0"	0812320
4000	13' 1"	0812400



INDELBROM DO BRASIL

Ponteiros

COMPRIMENTO_(L) DIÂMETRO_(D) COD.

MM

IN

Ponteiro

570

1 1/4"

4300001

490

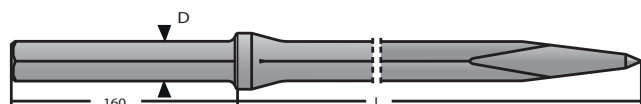
7/8"

4300004

1000

7/8"

4300005



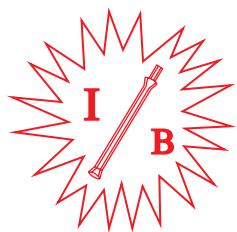
Talhadeira

400

1 1/4"

4300006





INDELBROM DO BRASIL

Taper Bits

Taper 6°



DIÂMETRO_(D)

MM

COD.

3/4

30

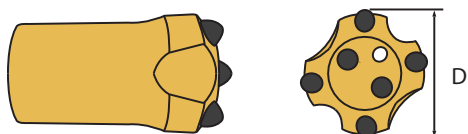
4100331

7/8

30

4100330

Taper 6°



3/4

32

4100532

7/8

32

4100332

34

4100334

36

4100336

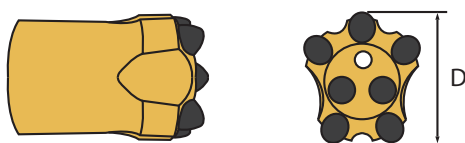
38

4100338

40

4100340

Taper 11°



30

4100430

32

4100432

34

4100434

36

4100436

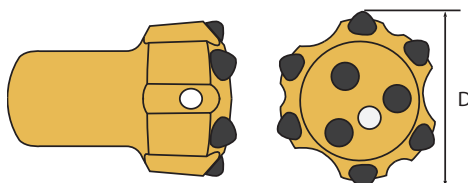
38

4100438

41

4100441

Taper 6°



45

4100345

48

4100348

50

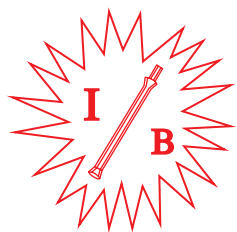
4100350

60

4100360

64

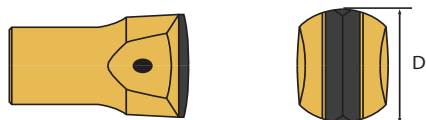
4100364



INDELBROM DO BRASIL

Cone Bits

Cone Bit

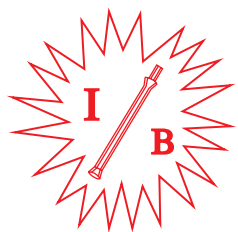


DIÂMETRO_(D)

MM

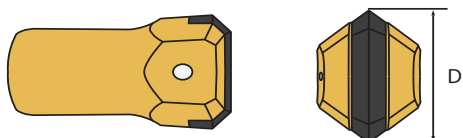
COD.

11/16	23	1500023
11/16	24	1500024
11/16	25	1500025
11/16	26	1500026
3/4	26	1500226
3/4	27	1500227
3/4	28	1500228
3/4	29	1500229
3/4	30	1500230
3/4	31	1500231
3/4	32	1500232
3/4	33	1500233
3/4	34	1500234
7/8	27	1500027
7/8	28	1500028
7/8	29	1500029
7/8	30	1500030
7/8	31	1500031
7/8	32	1500032
7/8	33	1500033
7/8	34	1500034
7/8	35	1500035
7/8	36	1500036
7/8	37	1500037
7/8	38	1500038
7/8	39	1500039
7/8	40	1500040
7/8	41	1500041



INDELBROM DO BRASIL

Cone Bit Raia



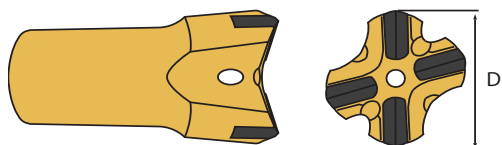
DIÂMETRO_(D)

MM

COD.

7/8	34	1500134
7/8	36	1500136
7/8	38	1500138
7/8	40	1500140
7/8	42	1500140

Coroas de Pastilha



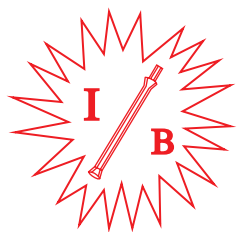
DIÂMETRO_(D)

IN

COD.

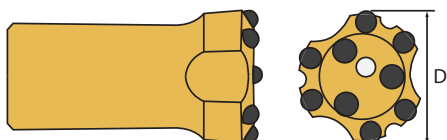
Rosca

R32	2"	1900002
R32	2 1/2"	1900013
T38	2 1/2"	1900003
T38	3"	1900004
T38	3 1/2"	1900005
T45	4"	1900008

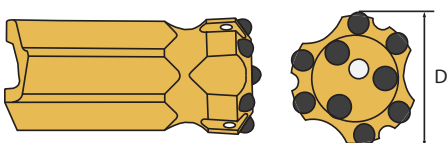


Coroas de Botão

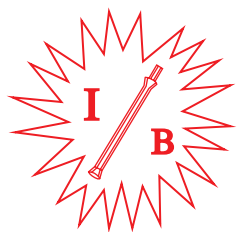
Button Bit



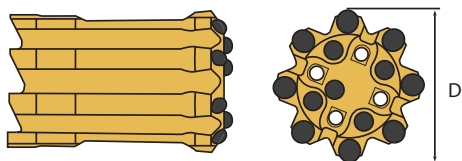
Retrac



DIÂMETRO _(D) IN	ROSCA	BOTÕES				COD.
		QTD	Centro	QTD	Lateral	
1 3/4"	R32	2	10mm	5	10mm	2000001
2"	R32	2	11mm	6	11mm	2000002
2 1/2"	R32	3	11mm	6	11mm	2000003
2 1/2"	T38	3	12mm	6	12mm	2000004
3"	T38	4	12mm	8	12mm	2001115
3"	T45	4	12mm	8	12mm	2001008
3 1/2"	T38	4	12mm	8	12mm	2000006
3 1/2"	T45	4	12mm	8	14mm	2011009
3 1/2"	T51	4	14mm	8	14mm	2000051
4"	T38	4	14mm	8	14mm	2000007
4"	T45	4	14mm	8	14mm	2000010
4"	T51	4	14mm	8	14mm	2000050
4 1/2"	T38	6	14mm	8	14mm	2000020
4 1/2"	T45	6	14mm	8	14mm	2000011
4 1/2"	T51	6	14mm	8	14mm	2000052
3 5/8"	T60	6	12mm	8	14mm	2000092
4 1/2"	T60	9	11mm	9	13mm	2002102
4 1/2"	T60	10	12mm	9	14mm	2003115
2"	R32	3	11mm	6	11mm	2000152
2 1/2"	R32	3	11mm	6	11mm	2000164
2 1/2"	T38	3	11mm	6	11mm	2000064
3"	T38	4	12mm	8	12mm	2002076
3"	T45	4	12mm	8	12mm	2001176
3 1/2"	T38	4	12mm	8	12mm	2000058
3 1/2"	T45	4	12mm	8	14mm	2002189
3 1/2"	T51	4	14mm	8	14mm	2000240
4"	T38	4	14mm	8	14mm	2000102
4"	T45	4	14mm	8	14mm	2000145
4"	T51	4	14mm	8	14mm	2000103
4 1/2"	T38	6	14mm	8	14mm	2000104
4 1/2"	T45	6	14mm	8	14mm	2000106
4 1/2"	T51	6	14mm	8	14mm	2000105

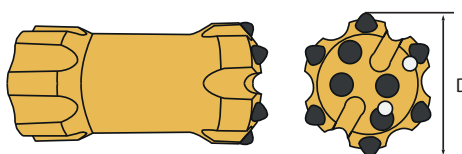


Drop Center



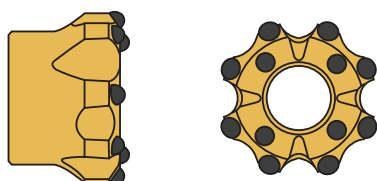
DIÂMETRO _(D) IN	ROSCA	BOTÕES				COD.
		QTD	Centro	QTD	Lateral	
2 1/2"	T38	5	11mm	8	13mm	2011165
3"	T45	9	11mm	9	13mm	2000245
3 1/2"	T45	5	11mm	8	13mm	2000345
4"	T45	9	11mm	9	13mm	2000245
4"	T60	9	13mm	9	13mm	2020102
4 1/2"	T60	10	12mm	9	14mm	2020114
5"	T60	10	14mm	9	16mm	2020127
5 1/2"	T60	10	14mm	9	16mm	2040140

Speed Bit



2 1/2"	T38	4	12mm	6	12mm	2000999
3"	T38	6	12mm	8	12mm	2001000
3"	T45	4	12mm	6	12mm	2001002
3 1/2"	T38	6	12mm	8	12mm	2001001
3 1/2"	T45	6	12mm	8	12mm	2001003

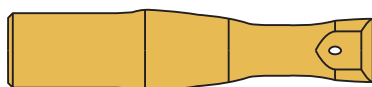
Coroa Alargadora 12°



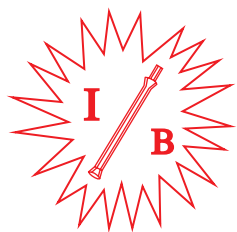
4"		4	12mm	6	12mm	2200131
----	--	---	------	---	------	---------

PASTILHA

Piloto 12°

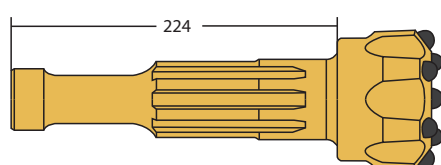


R32	32 mm	2200132
R32	35 mm	2200135
R32	40 mm	2200140



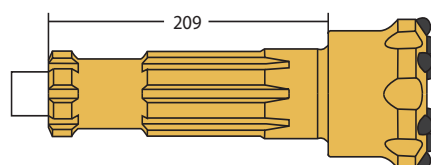
INDELBROM DO BRASIL

DTH



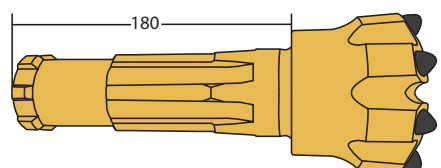
M30

8 estrias



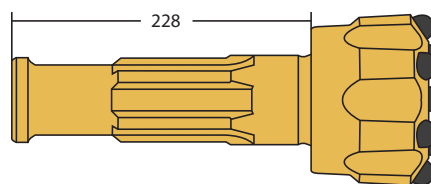
COP44

8 estrias



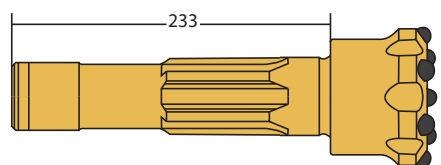
Bulroc 3

6 estrias



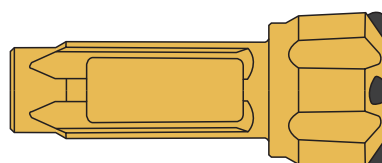
M40

12 estrias

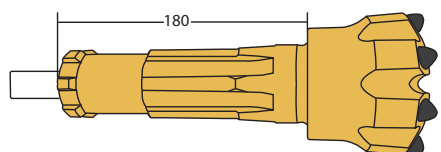


COP32

8 estrias

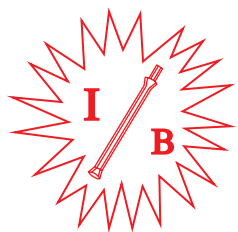


CIR

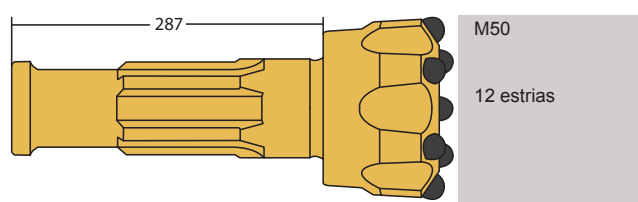


DHD 3.5

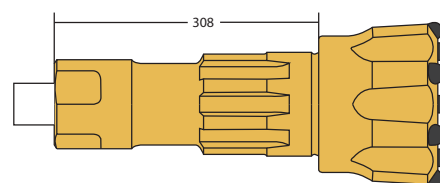
8 estrias



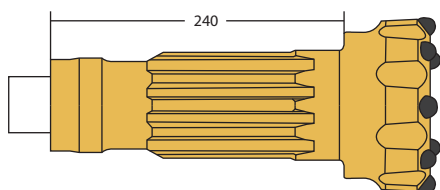
INDELBROM DO BRASIL



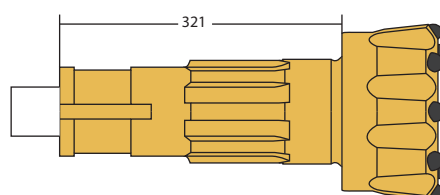
M50
12 estrias



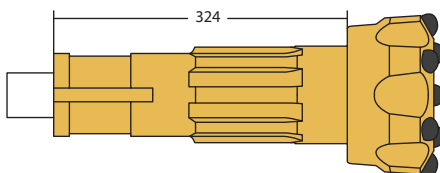
DHD 360
8 estrias



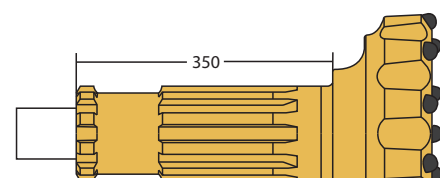
QL50
12 estrias



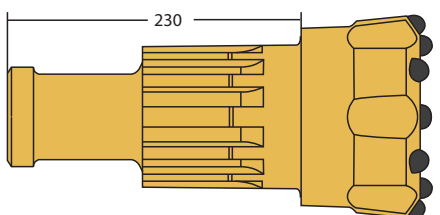
SD8
8 estrias



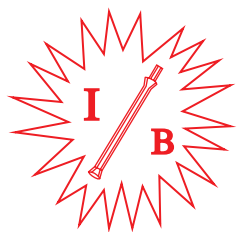
SD6
8 estrias



DHD 380
10 estrias



M60
12 estrias

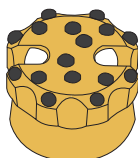


INDELBROM DO BRASIL

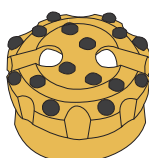
Côncavo



Plana



Cônvexo



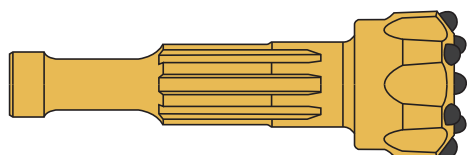
Opções de face para os modelos de DTH

Face Côncava: Tipo de face mais usado atualmente, possui excelente penetração em formações de rochas média e dura, mantendo o furo em linha reta. É indicado para a maioria das condições de perfuração.

Face Plana: Tipo de face indicado para aplicações agressivas, se adequa melhor em formações rochosas muito duras e quebradiças, muito usado em perfurações para explosões.

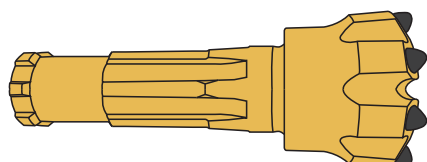
Face Convexa: Tipo de face indicado para rochas duras e abrasivas, permitindo perfurações rápidas e longas.

Mission 30, M30



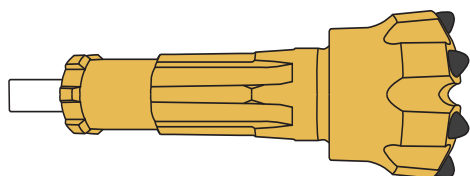
DIÂMETRO	FACE		BOTÕES				COD.
	Plana	Côncava	QTD	Centro	QTD	Lateral	
95 mm	✓		5	12mm	6	14mm	2030095
4"	✓		6	12mm	6	14mm	2030102

Bulroc 3



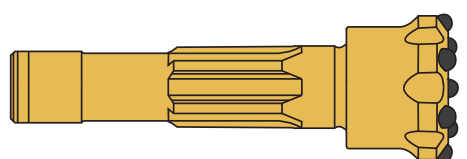
90 mm	✓		6	12mm	8	13mm	2002010
95 mm	✓		6	12mm	8	13mm	2002011
100 mm	✓		6	12mm	8	13mm	2002012

DHD 3.5

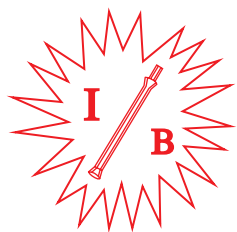


90 mm	✓		6	12mm	8	13mm	2003590
95 mm	✓		6	12mm	8	13mm	2003595
4"	✓		6	12mm	8	13mm	2035100

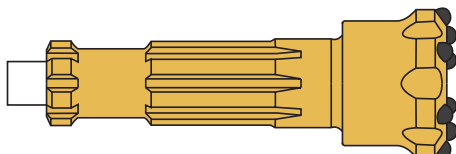
COP 32



90 mm	✓		6	12mm	8	13mm	2002007
95 mm	✓		6	12mm	8	13mm	2002008
100 mm	✓		6	12mm	8	13mm	2002009

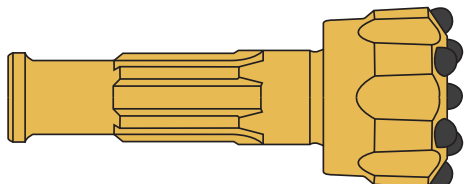


COP 44, DHD340



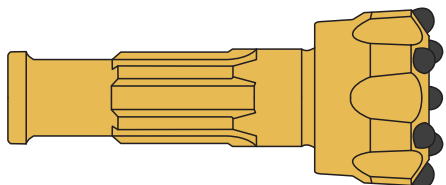
DIÂMETRO	FACE		BOTÕES				COD.
	Plana	Côncava	QTD	Centro	QTD	Lateral	
4"	✓		6	12mm	8	14mm	2002015
4 1/2"	✓		6	12mm	8	14mm	2002016
5"	✓		8	14mm	8	14mm	2002017

Mission 40, M40



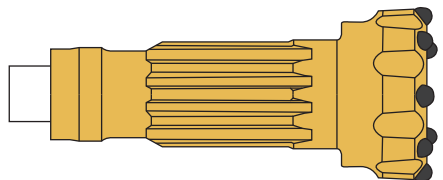
4"	✓		6	12mm	8	14mm	2010102
4 1/2"	✓		8	12mm	8	14mm	2010114
5"	✓		8	14mm	8	14mm	2010127
5 1/2"	✓		8	14mm	8	16mm	2010140
6"	✓		8	14mm	8	16mm	2010152

Mission 50, M50

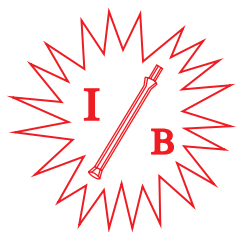


5"	✓		8	14mm	8	18mm	2050127
5 1/2"	✓		8	14mm	8	18mm	2050140
6"	✓		8	16mm	8	16mm	2050152

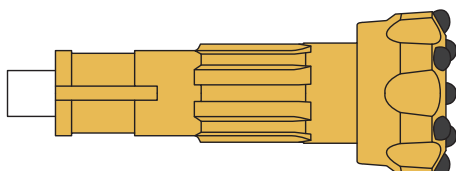
QL50



5 3/4"	✓		8	14mm	8	16mm	2002146
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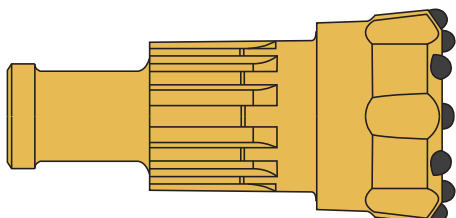


SD6, Mission 6



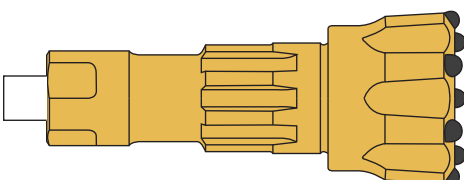
DIÂMETRO	FACE		BOTÕES				COD.
	Plana	Côncava	QTD	Centro	QTD	Lateral	
6"	✓		8	16mm	8	18mm	2002014
6 1/8"	✓		8	16mm	8	18mm	2002028
6 1/2"	✓		8	16mm	8	18mm	2002025
8"	✓		14	16mm	10	18mm	2002028
8 1/2"	✓		14	16mm	10	18mm	2002025

M60, MS6

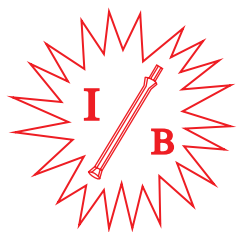


6"	✓		8	16mm	8	18mm	2002043
6"		✓	8	16mm	8	18mm	2003044
6 1/8"	✓		8	16mm	8	18mm	2002044
6 1/8"		✓	8	16mm	8	18mm	2002045
8"	✓		14	16mm	10	18mm	2002031
8"		✓	14	16mm	10	18mm	2003031
8 1/2"	✓		8	16mm	16	18mm	2002216
8 1/2"		✓	8	16mm	16	18mm	2003216
9"		✓	8	16mm	16	18mm	2000229
9 1/2"		✓	10	16mm	20	18mm	2000242
10"		✓	12	18mm	18	18mm	2000254

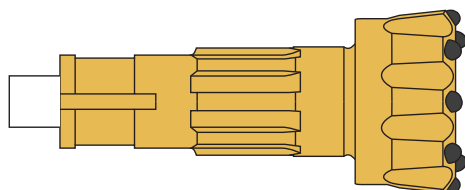
DHD 360



6"	✓		8	16mm	8	18mm	2002013
6"		✓	8	16mm	8	18mm	2001152
6 1/8"	✓		8	16mm	8	18mm	2002018
6 1/8"		✓	8	16mm	8	18mm	2001919
6 1/2"	✓		8	16mm	8	18mm	2002020
6 1/2"		✓	8	16mm	8	18mm	2003020
8"	✓		14	16mm	10	18mm	2002022
8"		✓	14	16mm	10	18mm	2001203
8 1/2"	✓		14	16mm	10	18mm	2002024
8 1/2"		✓	14	16mm	10	18mm	2001216

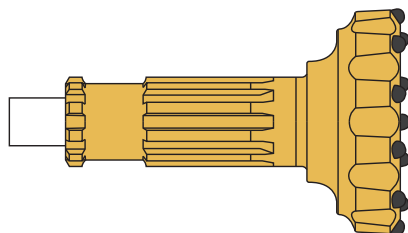


SD8



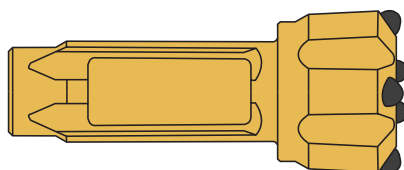
DIÂMETRO	FACE		BOTÕES				COD.
	Plana	Côncava	QTD	Centro	QTD	Lateral	
8"	✓		14	16mm	10	18mm	2003023
8"		✓	14	16mm	10	18mm	2002123
8 1/2"	✓		16	18mm	8	16mm	2003024
8 1/2"		✓	16	18mm	8	16mm	2002223
10"	✓		18	18mm	12	18mm	2003054
10"		✓	18	18mm	12	18mm	2002254
12"		✓	36	16mm	15	19mm	2002254

DHD 380

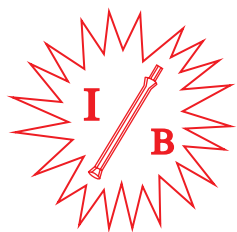


8"	✓		14	16mm	10	18mm	2001052
8"		✓	14	16mm	10	18mm	2001154
8 1/2"	✓		14	16mm	10	18mm	2001354
8 1/2"		✓	14	16mm	10	18mm	2001454
10"	✓		14	16mm	10	18mm	2001554
10"		✓	14	16mm	10	18mm	2001254

CIR

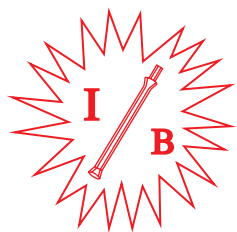


Modelo	Diâmetro	FACE		BOTÕES				COD.
		Plana	Côncava	QTD	Centro	QTD	Lateral	
CIR 80	75 mm	✓		4	12mm	6	12mm	2002050
CIR 80	83 mm	✓		4	12mm	6	12mm	2002033
CIR 80	90 mm	✓		5	12mm	6	14mm	2002030
CIR 90	90 mm	✓		5	12mm	6	14mm	2002001
CIR 90	95 mm	✓		5	12mm	6	14mm	2002002
CIR 90	100 mm	✓		6	13mm	8	14mm	2002003
CIR 90	105 mm	✓		6	13mm	8	14mm	2002029
CIR 90	110 mm	✓		6	14mm	8	14mm	2002004
CIR 90	120 mm	✓		6	14mm	8	14mm	2090120
CIR 90	130 mm	✓		6	14mm	8	14mm	2090130
CIR 90	135 mm	✓		6	14mm	8	14mm	2090135
CIR 110	110 mm	✓		6	14mm	8	14mm	2002046
CIR 110	120 mm	✓		6	14mm	8	14mm	2110120
CIR 110	135 mm	✓		6	14mm	8	14mm	2110135
CIR 115	203 mm	✓		15	16mm	10	18mm	2002203



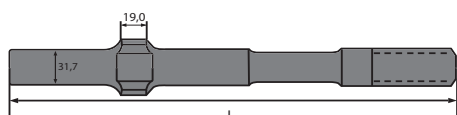
Punhos

Atlas Copco	23
Furukawa	25
Gardner-Denver	25
Ingersoll-Rand	26
Montabert	26
PW Hidropneumatica	27
Sandvik / Tamrock	27
Soosan	28



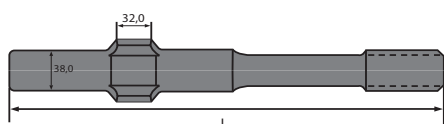
Atlas Copco

BBC 100, BBC 42, BBC 44



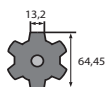
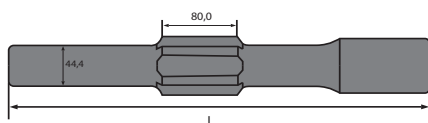
ROSCA	COMPRIMENTO _(L)		DIÂMETRO _(D) DO CORPO	COD.
	MM	MM		
R32	380	31,9		2900020
T38	380	31,9		2900004

BBC 120, BBC 54



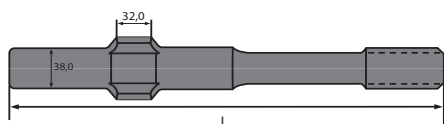
R32	380	38,0		2900019
T38	390	38,0		2900007

BBE 57 Femea



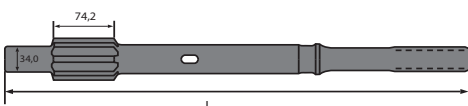
T38	447	44,4		2900017
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BBE 57

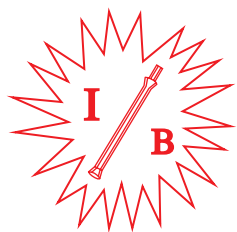


T38	540	44,4		2900009
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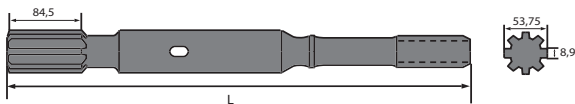
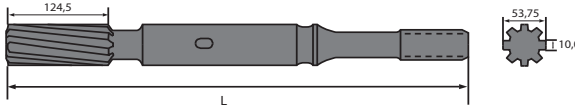
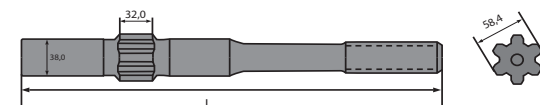
COP 1238, COP 1036, COP 1038

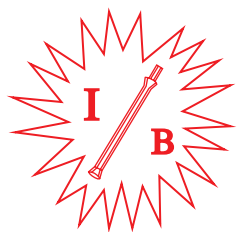


R38	485	38,0		2900089
R32	575	38,0		2900062
R38	575	38,0		2912381
T38	575	38,0		2912382
T45	575	45,0		2900090
R32	575	45,0		2912383
R38	575	45,0		2912384
T38	575	45,0		2900120



INDELBROM DO BRASIL

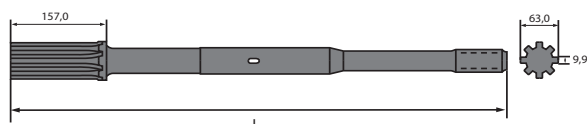
	ROSCA	COMPRIMENTO(L)	DIÂMETRO(D) DO CORPO	COD.
		MM	MM	
COP 1838, COP 1440, COP 1550 	R38	435	38,0	2900174
	T38	435	38,0	2900074
	R32	525	38,0	2900122
	R38	525	38,0	2900061
	T38	525	38,0	2900124
	T38	525	52,0	2900077
	T45	525	52,0	2900106
	T51	525	52,0	2918381
COP 1840 	T38	565	45,0	2900255
	T38	565	52,0	2900083
	T45	565	45,0	2900082
	T45	565	52,0	2900078
	T51	565	52,0	2900103
COP 131 	R32	380	38,0	2900117
	T38	380	38,0	2900010



INDELBROM DO BRASIL

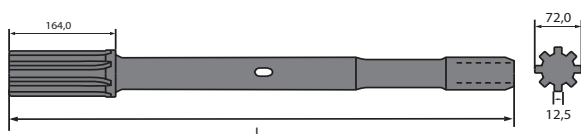
Furukawa

HD 709 RP



ROSCA	COMPRIMENTO(L)	DIÂMETRO(D) DO CORPO	COD.
	MM	MM	
T38	814	45,0	2900709
T45	814	45,0	2900710
T51	814	45,0	2900711

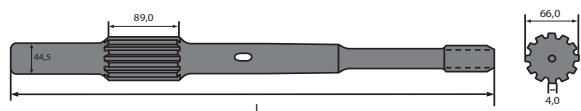
HD 712 RP



T45	885	50,8	2900712
T51	885	50,8	2951712

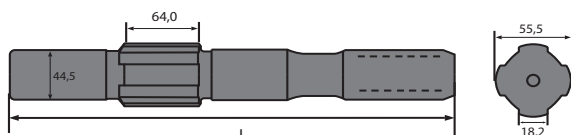
Gardner-Denver

HPR1H



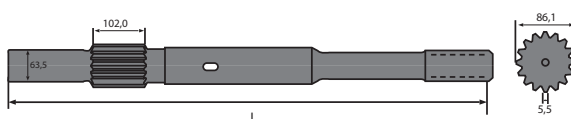
R38	725	44,5	2900011
T38	725	44,5	2900038
T45	725	44,5	2900037

PR123J

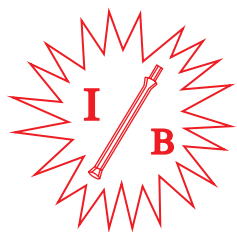


T38	381	44,3	2900014
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HPR2-68



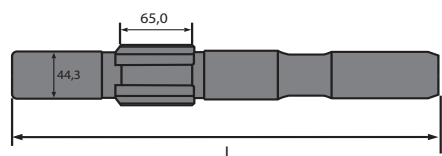
T60	970	70,0	2900970
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INDELBROM DO BRASIL

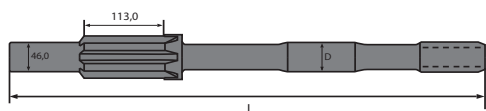
Ingersoll-Rand

VL 140, VL120, EVL 130



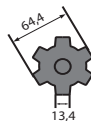
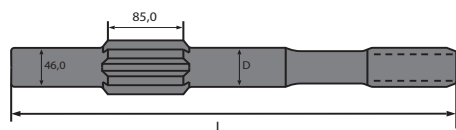
ROSCA	COMPRIMENTO _(L)	DIÂMETRO _(D) DO CORPO	COD.
	MM	MM	
R32	381	44,3	2900034
R38	381	44,3	2900069
T38	381	44,3	2900001

YH65RP, YH70RP, YH75RP, YH80RP



T45	700	45,0	2900058
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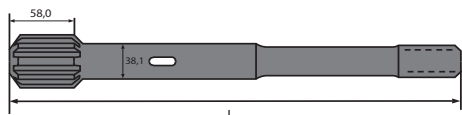
YH80A



T38	495	38,0	2900080
T38	495	45,0	2900057
T38	495	52,0	2900102
T45	500	45,0	2900079
T45	500	52,0	2900086

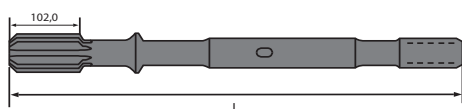
Montabert

HC40

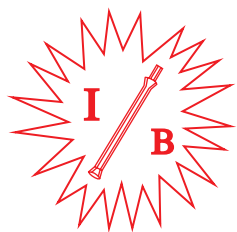


T38	447	38,0	2900050
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HC80RP, HC105RP



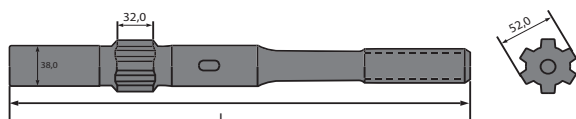
T38	670	45,0	2900109
T38	770	45,0	2900770
T45	670	45,0	2900093
T38	490	45,0	2900092



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PW Hidro

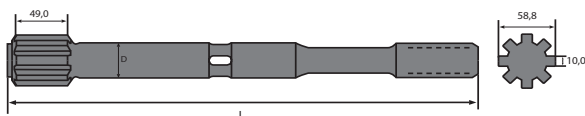
LS T38, PW T38



ROSCA	COMPRIMENTO(L)		DIÂMETRO(D) DO CORPO	COD.
	MM	MM	MM	
R32	440		38,0	2900003
T38	440		38,0	2900013

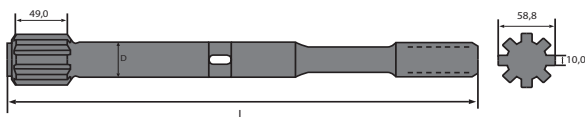
Sandvik

HL500



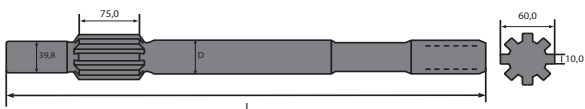
R32	460		38,0	2900036
R38	460		38,0	2900460
T38	460		38,0	2900110
R38	550		38,0	2900048
T38	550		38,0	2900022
T38	550		45,0	2900112
T45	550		45,0	2900023

HL550, HL560, HL510 S-45

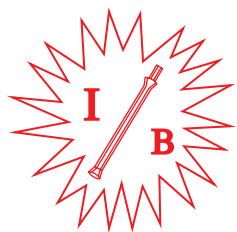


T38	500		45,0	2900550
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HL600

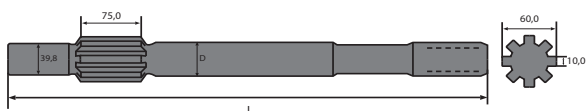


T38	600		38,0	2900024
T38	600		45,0	2900111
T45	600		45,0	2900025
T45	600		38,0	2900094
T51	600		52,0	2900031



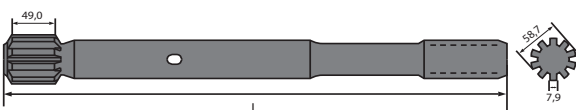
INDELBROM DO BRASIL

HL700



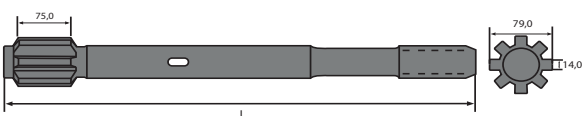
ROSCA	COMPRIMENTO(L)		DIÂMETRO(D) DO CORPO	COD.
	MM	MM		
R32	600	45,0		2900059
T38	600	38,0		2900116
T38	600	45,0		2900115
T45	600	38,0		2900098
T45	600	45,0		2900054
T45	600	51,0		2900067
T51	600	52,0		2900107
T38	600	52,0		2900108

HLX5, HLX5T



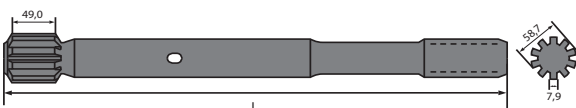
R32	500	45,0		2900555
R38	500	45,0		2900055
T38	500	45,0		2900118

HL1000



T51	670	60,0		2900114
T60	670	60,0		2901116

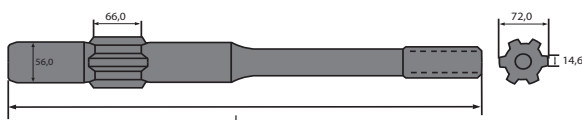
HL1000 PE-65



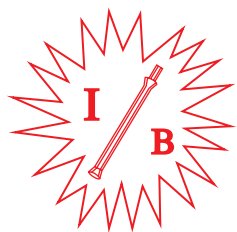
T51	760	65,0		2900099
T60	760	65,0		2901065

Soosan

Soosan ED100



T38	635	45,0		2900087
T45	635	45,0		2900119



Hastes

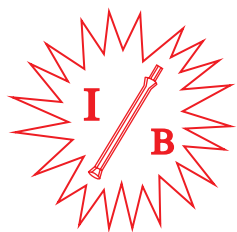
Haste Hexagonal



Haste Redonda



ROSCA	COMPRIMENTO ^(L)		COD.
	MM	FT/IN	
R28/R32	2600	8' 6"	1632260
R32/R28	2440	8' 0"	1603224
R32/R28	3660	12' 0"	1628360
R32/R38	3660	12' 0"	1603832
R32/R38	4270	14' 0"	1603832
R32/T38	3050	10' 0"	1600049
R32/T38	3660	12' 0"	1632370
R32/T38	3700	12' 1"	1643032
R32/T38	4270	14' 0"	1643032
R32	2440	8' 0"	1632240
T38	2400	7' 10"	1601400
T38	3050	10' 0"	1600038
T38	4270	14' 0"	1604271
R32	1220	4' 0"	1601220
R32	1830	6' 0"	1601183
R32	2440	8' 0"	1600244
R32	3050	10' 0"	1600114
R32	3660	12' 0"	1600360
T38	610	2' 0"	1638600
T38	1000	3' 4"	1600100
T38	1220	4' 0"	1701220
T38	1525	5' 0"	1601500
T38	1830	6' 0"	1601800
T38	2440	8' 0"	1602400
T38	3050	10' 0"	1600112
T38	3660	12' 0"	1638112
T45	3050	10' 0"	1600146
T45	3660	12' 0"	1606025
T51	3660	12' 0"	1600050



Haste Redonda MF

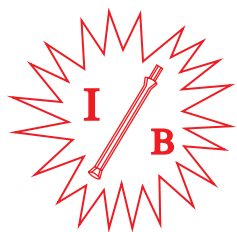


ROSCA	COMPRIMENTO _(L)		COD.
	MM	FT/IN	
R32	1220	4' 0"	1601220
R32	1800	6' 0"	1601180
R32	2440	8' 0"	1602240
R32	3050	10' 0"	1603050
R32	3660	12' 0"	1603660
T38	1000	3' 3"	1610038
T38	1220	4' 0"	1612238
T38	1525	5' 0"	1600016
T38	1830	6' 0"	1638183
T38	2440	8' 0"	1624000
T38	3050	10' 0"	1630500
T38	3660	12' 0"	1636600
T45	1525	5' 0"	1600015
T45	3050	10' 0"	1600046
T45	3660	12' 0"	1600045
T51	3660	12' 0"	1600051
T60	3660	12' 0"	1636660
T60	4270	14' 0"	1660427

Haste Rosca Dupla



T38	3050	10' 0"	1600138
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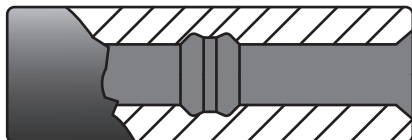
Tubo Guia



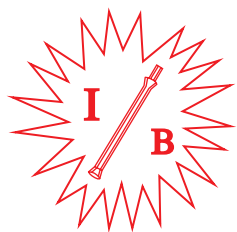
ROSCA	COMPRIMENTO _(L)		COD.
	MM	FT/IN	
T38	1220	4' 0"	4200001
T38	1525	5' 0"	4200005
T38	1830	6' 0"	4200002
T38	3050	10' 0"	4200006
T45	1220	4' 0"	4200007
T45	1525	5' 0"	4200004
T45	1830	6' 0"	4200003
T45	3050	10' 0"	4200008

Luvras

Luva



ROSCA	COD.
R28/R32	2203228
R32/R38	2213831
R38/T38	2203838
R32	2000032
R38	2200138
T38	2200038
T45	2200045
T51	2200051



INDELBROM DO BRASIL

Produtos Especiais

A **Indelbrom do Brasil** possui uma extensa linha de produtos capaz de atender a diversos segmentos do mercado brasileiro.

Além disso somos capazes de atender pedidos de produtos especiais visando atender a necessidade de cada cliente, produzimos a partir de amostra ou desenho, com prazo de entrega reduzido e quantidade mínima de peças baixa.

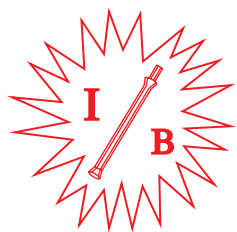
Perfuração de Alto forno

Possuímos também uma linha de produção dedicada a atender as Indústrias Siderúrgicas com produtos voltados para a perfuração de Alto Forno.

Para maiores informações sobre pedidos especiais entre em contato com nosso setor de vendas.

**INDELBROM DO BRASIL S/A.
AV. JOSÉ DE ALENCAR, 103
SUMIDOURO-RJ
28637-000**

**INDELBROM.COM.BR
TEL: (22) 2531-1131
EMAIL: VENDAS@INDELBROM.COM.BR**



Manutenção

Afiação de Botoes e Pastilhas

Afiação de Botões

É recomendado que a afiação em coroas de botões sejam feitas quando o achatamento na calota dos botões atingir $\frac{1}{3}$ do diâmetro do botão (Imagem 1).

Acima deste limite a coroa de botão é submetido a esforços desnecessários e pode perder o rendimento.

Deve-se afiar o botão usando rebolos diamantados especialmente desenvolvidos para essa função, a fim de manter o gabarito do botão.

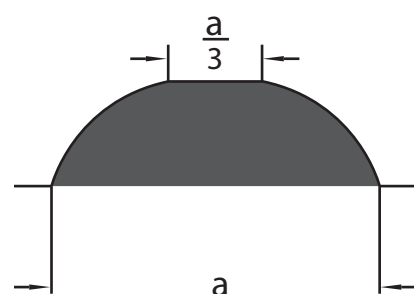


Imagem 1

Afiação de Pastilhas

É recomendado que a afiação de brocas ou coroas de pastilhas sejam feitas quando o corte da pastilha atingir 3 mm de planicidade (Imagem 2), medido a 5 mm da extremidade da pastilha.

Acima deste limite a broca ou a coroa começa a perder seu rendimento.

Deve-se afiar as pastilhas usando rebolos diamantados especialmente desenvolvidos para essa função, a fim de manter o gabarito da pastilha. Após a afiação deve-se remover todos os cantos vivos.

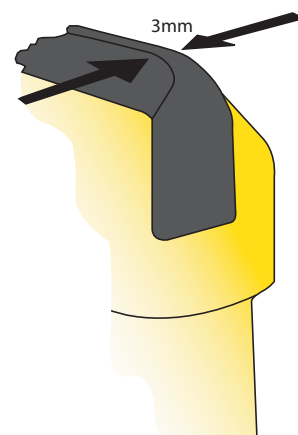
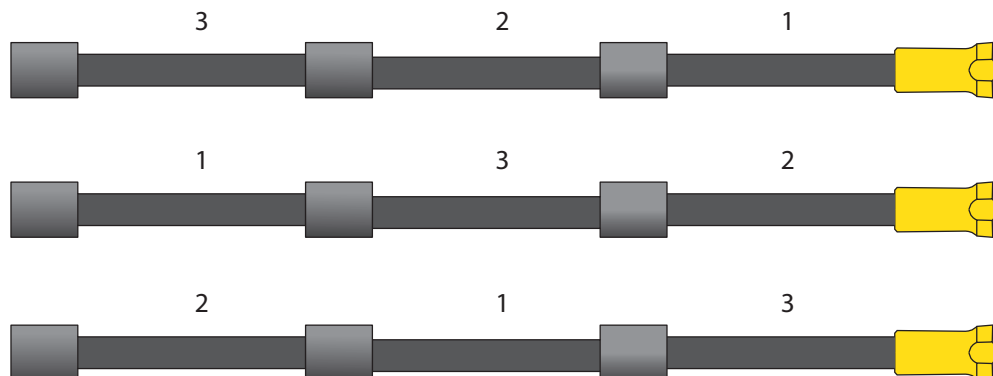
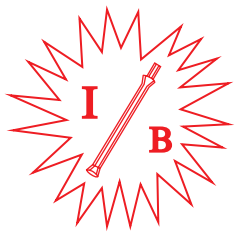


Imagem 2



Rodízio das Hastes e Luvas

Para tornar o desgaste das hastes e luvas uniformes um rodízio deve ser feito, de acordo com o esquema acima, alternando suas posições. Sendo assim, a primeira haste e a primeira luva de um furo serão as ultimas do furo seguinte.

Deve-se inverter a posição das hastes quando a rosca apresentar um desgaste de 50%.

Perfuração

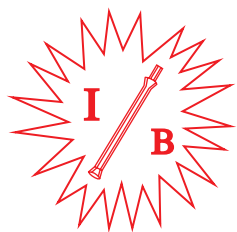
Após colocar uma haste nova, verifique, antes de começar a perfurar, se o fluxo de ar está correto. Tenha cuidado ao iniciar o furo, use força moderada até a introdução da primeira haste.

A intensidade de pressão deverá ser então aumentada a uma condição de nível ideal as condições da rocha.

Uma pressão exagerada poderá desvia-la do seu alinhamento. O avanço deve ser regulado de tal forma a evitar que a perfuratriz vibre e desalinhe.

A rotação deve ser mantida uniformemente. Remova o material expulso pelo sopro de limpeza das proximidades do furo, mantendo-o limpo.

Mantenha o local de trabalho limpo e coloque as ferramentas em suportes adequados.



Cuidados gerais

Deve-se atentar para a frequência de afiação dos insertos(botões e pastilhas);

Afiar os insertos de maneira adequada de acordo com o gabarito;

Verificar a limpeza do furo e a pressão do ar de limpeza;

Evitar batidas e impactos no corpo das hastes e brocas;

Lubrificar adequadamente as roscas;

Não usar ferramentas novas com ferramentas com a rosca já desgastada;

Verificar periodicamente a condição das buchas de rotação e martelo.

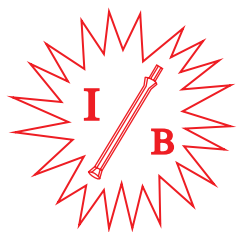


Tabela de Conversão

Volume de ar

1 cc = 0,001 litro

1 litro = 0,001 m³

Vazão de ar

1 cfm = 0,0283 m³/min

1 cfm = 0,4719 litro/s

1 m³/min = 35,315 cfm

1 m³/min = 16,667 litro/s

1 litro/s = 2,1189 cfm

1 litro/s = 0.0600 m³/min

Pressão de ar

1 psi = 0,0689 bar

1 psi = 0,0703 kg/cm²

1 psi = 0,0680 atm

1 bar = 14,504 psi

1 bar = 1,0197 kg/cm²

1 bar = 0,9869 atm

1 atm = 14,696 psi

1 atm = 1,0132 bar

1 atm = 1,0332 kg/cm²

Velocidade

1 m/min = 3,2808 ft/min

1 m/min = 0,0167 m/s

1 ft/min = 0,3048 m/min

1 ft/min = 0,0051 m/s

1 m/s = 60 m/min

1 m/s = 196,85 ft/min

Torque

1 lb/ft = 0,1383 kgm

1 lb/ft = 1,3558 Nm

1 lb/ft = 12,00 lb/in

1 kgf.m = 7.233 lb/ft

1 kgf.m = 9,8067 Nm

1 kgf.m = 86,796 lb/in

1 lb/in = 0,0833 lb/ft

1 lb/in = 0,0115 kgf.m

1 lb/in = 0,1130 Nm