



M & D Marketing Ltd

Unit 25, IMEX Business
Park, Ormonde Street
S-O-T, ST4 3NP

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Paper Drill Bits

Introduction

Our Paper drill bits are used in paper drilling, which is a technique used in trade binderies for providing large quantities of paper with round holes. The paper can be processed as loose leaves and in brochures (stitched, perfect bound).

Taking care of your hollow paper drill is essential to your paper drilling machines performance. Blunt drills will deteriorate very quickly burning the paper and ultimately breaking. To avoid this it is best to check your drill bit on a regular basis, if the drill is found to have lost its edge use a drill sharpening kit to keep it sharp or changing the bit. It must be remembered that the drill bit is a consumable item so make sure you have enough to complete your job.

Drill Bits

The drill bits are made from the highest quality steel and are supplied in Standard, Teflon and Hard Metal Tipped with a 2 mm to 12.5 mm size range. The type of drill bits supplied are detailed in the table below and are hyperlink to the page with the size ranges, if you cannot find exactly what you require please contact our sales team.

Standard Fitting	Iram	Lihit Minor	Lihit Major
Suitable for Citoborma, Nagel, Foelmer, NFPE, Frawa, Kobold, Hang, Pasha, Uchida, Concorde, Stago, Zellar and Venus	Standard fitting with extra length for Iram etc.	Suitable for Lihit Autopunch 2001 and Mark II.	Suitable for 1013, 1015 and Iram Filofax
Soag	Challenge/Funditor	Bielomatic	Custom
Suitable for Soag, Kaynor and Nyen	Suitable for Funditor, Challenge and Spinnit.	Suitable for Bielomatic	Suitable for Kuhl, PDC and Sterling
Dexter Lawson	HFA	Ideal	Iram US
Suitable for Baum RB and Miller HFD	Suitable for Seybold and Systemram	Suitable for Tedeco	Suitable for Iram US-style



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Drill Bit Basics

Normal Paper Drill Bits

All Normal Paper Drill Bits are produced from the very best tool steel produced in Germany. All drills bits are drilled, lathed and honed all in one piece. The hardening process is done in a special kiln ensuring optimum quality. The hardness of the drill bits is measured according to the Rockwell C scale and the final result is such, that the working life and hardness of the finished drills are better than any other paper drill bit available today.

The inside honing is done with special abrasive compounds in special machines. This ensures smooth trouble free removal of waste. The tapering is done on our own specially designed, developed, and produced machinery.

HMT Paper Drill Bits (Hard Metal Tipped)

Normal paper drill bits can have a hard metal coating welded on the last 5 mm of the tip. This hard metal goes into a perfect amalgamation with the tool steel so that it resists mechanical loads, that neither blows, bending, stretching nor pressure will remove. The coating is applied according to a cold Electro erosion principle and will in certain cases reach a hardness as high as 82 HRC.

BRACOAT Paper Drill Bits

Use with normal drill bits sometimes results in undesirable increased temperatures followed by time consuming break downs. This is sometimes overcome by a pneumatic cooling or by silicone being sprayed on the drill bit at certain intervals.

This is not necessary when using BRACOAT paper drill bits. BRACOAT is a tough high temperature resistant fluorocarbon coating similar to a Teflon™ coating. The 10 - 50μ film has an optimum low friction to wear ratio and gives a good corrosion protection.

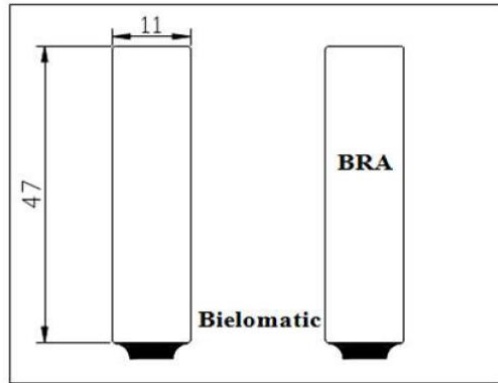
FILM THICKNESS	: 10 - 50μ
APPEARANCE	: Smooth, semi glossy
TEMPERATURE-RANGE	: 250° C continuous, 300o intermittent
NON-STICK	: Fair
COEFFICIENT OF FRICTION	: Static app. 0.11, dynamic 0.06
WEAR RESISTANT	: Moderate to good
CORROSION PROTECTION	: Very good against environmental corrosion
SUBSTRATES	: Most metals, ceramic and plastic materials
LIMITATION	: Sharp tools will damage the coating.



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Bielomatic

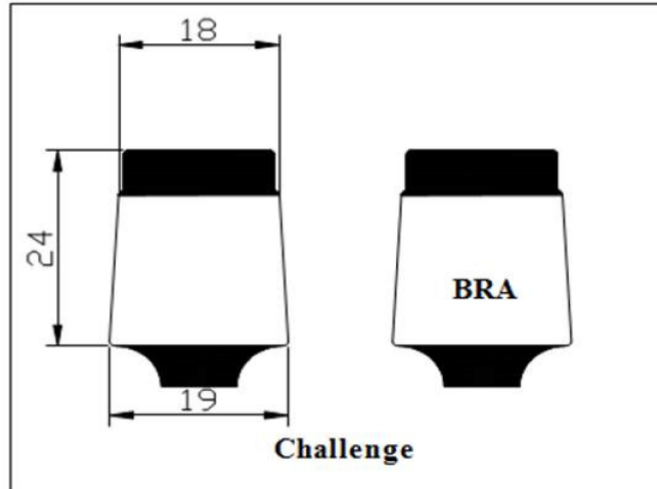
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
6.0 mm	35 mm	85 mm	099061	99062	99063



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Challenge (Funditor, Rosco, Spinnit)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	82 mm	100001	100002	100003
3.5 mm	35 mm	82 mm	100011	100012	100013
4.0 mm	40 mm	82 mm	100021	100022	100023
4.5 mm	45 mm	82 mm	100031	100032	100033
5.0 mm	50 mm	82 mm	100041	100042	100043
5.5 mm	50 mm	82 mm	100051	100052	100053
6.0 mm	50 mm	82 mm	100061	100062	100063
6.5 mm	50 mm	82 mm	100071	100072	100073
7.0 mm	50 mm	82 mm	100081	100082	100083
7.5 mm	50 mm	82 mm	100091	100092	100093
8.0 mm	50 mm	82 mm	100101	100102	100103
8.5 mm	50 mm	82 mm	100111	100112	100113
9.0 mm	50 mm	82 mm	100121	100122	100123
9.5 mm	50 mm	82 mm	100131	100132	100133
10.0 mm	50 mm	82 mm	100141	100142	100143
10.5 mm	50 mm	82 mm	100151	100152	100153
11.0 mm	50 mm	82 mm	100161	100162	100163
11.5 mm	50 mm	82 mm	100171	100172	100173
12.0 mm	50 mm	82 mm	100181	100182	100183
12.5 mm	50 mm	82 mm	100191	100192	100193
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/8"	30 mm	82 mm	100201	100202	100203
5/32"	40 mm	82 mm	100211	100212	100213
3/16"	45 mm	82 mm	100221	100222	100223
7/32"	50 mm	82 mm	100231	100232	100233
1/4"	50 mm	82 mm	100241	100242	100243



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9/32"	50 mm	82 mm	100251	100252	100253
5/16"	50 mm	82 mm	100261	100262	100263
11/32"	50 mm	82 mm	100271	100272	100273
3/8"	50 mm	82 mm	100281	100282	100283
13/32"	50 mm	82 mm	100291	100292	100293
7/16"	50 mm	82 mm	100301	100302	100303
15/32"	50 mm	82 mm	100311	100312	100313
1/2"	50 mm	82 mm	100321	100322	100323



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Challenge x 2½" (Funditor, Rosco, Spinnit)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
5.0 mm	65 mm	95 mm	100401	100402	100403
5.5 mm	65 mm	95 mm	100411	100412	100413
6.0 mm	65 mm	95 mm	100421	100422	100423
6.5 mm	65 mm	95 mm	100431	100432	100433
7.0 mm	65 mm	95 mm	100441	100442	100443
7.5 mm	65 mm	95 mm	100451	100452	100453
8.0 mm	65 mm	95 mm	100461	100462	100463
8.5 mm	65 mm	95 mm	100471	100472	100473
9.0 mm	65 mm	95 mm	100481	100482	100483
9.5 mm	65 mm	95 mm	100491	100492	100493
10.0 mm	65 mm	95 mm	100501	100502	100503
10.5 mm	65 mm	95 mm	100511	100512	100513
11.0 mm	65 mm	95 mm	100521	100522	100523
11.5 mm	65 mm	95 mm	100531	100532	100533
12.0 mm	65 mm	95 mm	100541	100542	100543
12.5 mm	65 mm	95 mm	100551	100552	100553
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
7/32"	65 mm	95 mm	100601	100602	100603
1/4"	65 mm	95 mm	100611	100612	100613
9/32"	65 mm	95 mm	100621	100622	100623
5/16"	65 mm	95 mm	100631	100632	100633
11/32"	65 mm	95 mm	100641	100642	100643
3/8"	65 mm	95 mm	100651	100652	100653
13/32"	65 mm	95 mm	100661	100662	100663
7/16"	65 mm	95 mm	100671	100672	100673
15/32"	65 mm	95 mm	100681	100682	100683
1/2"	65 mm	95 mm	100691	100692	100693



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Challenge x 3" (Funditor, Rosco, Spinnit)

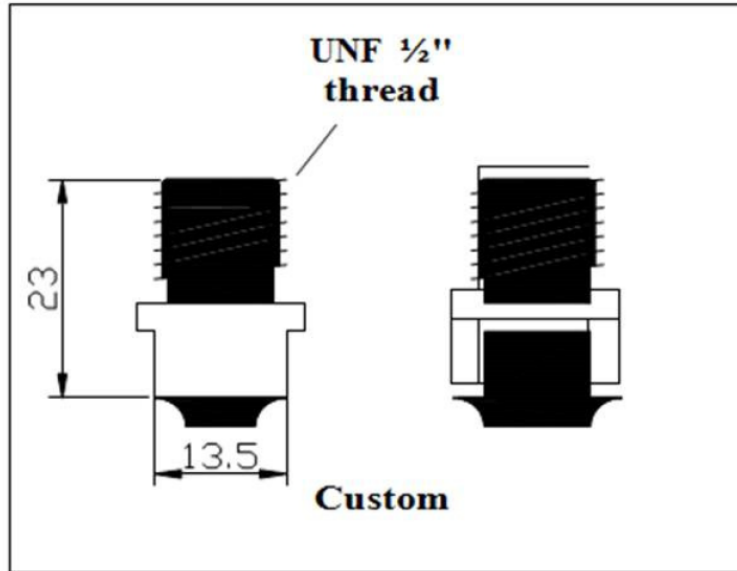
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
5.0 mm	75 mm	105 mm	100801	100802	100803
5.5 mm	75 mm	105 mm	100811	100812	100813
6.0 mm	75 mm	105 mm	100821	100822	100823
6.5 mm	75 mm	105 mm	100831	100832	100833
7.0 mm	75 mm	105 mm	100841	100842	100843
7.5 mm	75 mm	105 mm	100851	100852	100853
8.0 mm	75 mm	105 mm	100861	100862	100863
8.5 mm	75 mm	105 mm	100871	100872	100873
9.0 mm	75 mm	105 mm	100881	100882	100883
9.5 mm	75 mm	105 mm	100891	100892	100893
10.0 mm	75 mm	105 mm	100901	100902	100903
10.5 mm	75 mm	105 mm	100911	100912	100913
11.0 mm	75 mm	105 mm	100921	100922	100923
11.5 mm	75 mm	105 mm	100931	100932	100933
12.0 mm	75 mm	105 mm	100801	100802	100803
12.5 mm	75 mm	105 mm	100811	100812	100813
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/4"	75 mm	105 mm	101001	101002	101003
9/32"	75 mm	105 mm	101011	101012	101013
5/16"	75 mm	105 mm	101021	101022	101023
11/32"	75 mm	105 mm	101031	101032	101033
3/8"	75 mm	105 mm	101041	101042	101043
13/32"	75 mm	105 mm	101051	101052	101053
7/16"	75 mm	105 mm	101061	101062	101063
15/32"	75 mm	105 mm	101071	101072	101073
1/2"	75 mm	105 mm	101081	101082	101083



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Custom (Kuhl, PDC, Sterling)

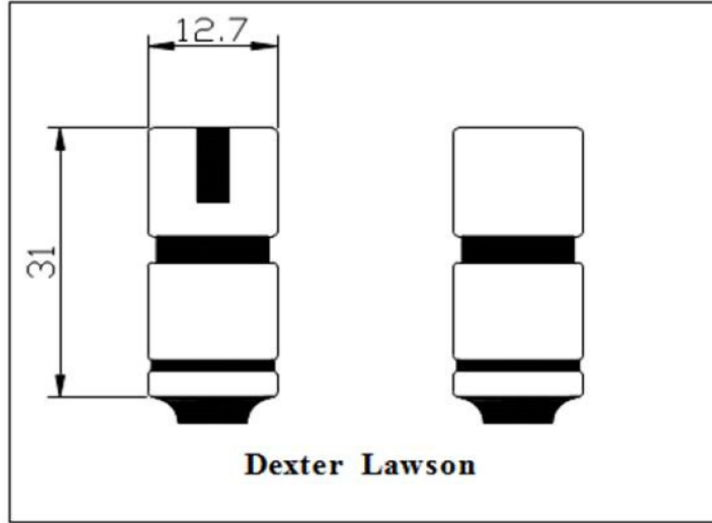
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/8"	30 mm	82 mm	105001	105002	105003
5/32"	40 mm	82 mm	105011	105012	105013
3/16"	45 mm	82 mm	105021	105022	105023
7/32"	50 mm	82 mm	105031	105032	105033
1/4"	55 mm	82 mm	105041	105042	105043
9/32"	55 mm	82 mm	105051	105052	105053
5/16"	55 mm	82 mm	105061	105062	105063
11/32"	55 mm	82 mm	105071	105072	105073
3/8"	55 mm	82 mm	105081	105082	105083
13/32"	55 mm	82 mm	105091	105092	105093
7/16"	60 mm	82 mm	105101	105102	105103



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Dexter Lawson x 3½" (Baum RB, Miller HFD)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	89 mm	110001	110002	110003
3.5 mm	35 mm	89 mm	110011	110012	110013
4.0 mm	40 mm	89 mm	110021	110022	110023
4.5 mm	45 mm	89 mm	110031	110032	110033
5.0 mm	50 mm	89 mm	110041	110042	110043
5.5 mm	50 mm	89 mm	110051	110052	110053
6.0 mm	50 mm	89 mm	110061	110062	110063
6.5 mm	50 mm	89 mm	110071	110072	110073
7.0 mm	50 mm	89 mm	110081	110082	110083
7.5 mm	50 mm	89 mm	110091	110092	110093
8.0 mm	50 mm	89 mm	110101	110102	110103
8.5 mm	50 mm	89 mm	110111	110112	110113
9.0 mm	50 mm	89 mm	110121	110122	110123
9.5 mm	50 mm	89 mm	110131	110132	110133
10.0 mm	50 mm	89 mm	110141	110142	110143
10.5 mm	50 mm	89 mm	110151	110152	110153
11.0 mm	50 mm	89 mm	110161	110162	110163
11.5 mm	50 mm	89 mm	110171	110172	110173
12.0 mm	50 mm	89 mm	110181	110182	110183
12.5 mm	50 mm	89 mm	110191	110192	110193
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/8"	30 mm	89 mm	110201	110202	110203
5/32"	40 mm	89 mm	110211	110212	110213
3/16"	45 mm	89 mm	110221	110222	110223
7/32"	50 mm	89 mm	110231	110232	110233



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1/4"	50 mm	89 mm	110241	110242	110243
9/32"	50 mm	89 mm	110251	110252	110253
5/16"	50 mm	89 mm	110261	110262	110263
11/32"	50 mm	89 mm	110271	110272	110273
3/8"	50 mm	89 mm	110281	110282	110283
13/32"	50 mm	89 mm	110291	110292	110293
7/16"	50 mm	89 mm	110301	110302	110303
15/32"	50 mm	89 mm	110311	110312	110313
1/2"	50 mm	89 mm	110321	110322	110323

Dexter Lawson x 4" (Baum RB, Miller HFD)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
5.0 mm	65 mm	102 mm	110401	110402	110403
5.5 mm	65 mm	102 mm	110411	110412	110413
6.0 mm	65 mm	102 mm	110421	110422	110423
6.5 mm	65 mm	102 mm	110431	110432	110433
7.0 mm	65 mm	102 mm	110441	110442	110443
7.5 mm	65 mm	102 mm	110451	110452	110453
8.0 mm	65 mm	102 mm	110461	110462	110463
8.5 mm	65 mm	102 mm	110471	110472	110473
9.0 mm	65 mm	102 mm	110481	110482	110483
9.5 mm	65 mm	102 mm	110491	110492	110493
10.0 mm	65 mm	102 mm	110501	110502	110503
10.5 mm	65 mm	102 mm	110511	110512	110513
11.0 mm	65 mm	102 mm	110521	110522	110523
11.5 mm	65 mm	102 mm	110531	110532	110533
12.0 mm	65 mm	102 mm	110541	110542	110543
12.5 mm	65 mm	102 mm	110551	110552	110553
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
7/32"	65 mm	102 mm	110601	110602	110603
1/4"	65 mm	102 mm	110611	110612	110613
9/32"	65 mm	102 mm	110621	110622	110623
5/16"	65 mm	102 mm	110631	110632	110633
11/32"	65 mm	102 mm	110641	110642	110643
3/8"	65 mm	102 mm	110651	110652	110653
13/32"	65 mm	102 mm	110661	110662	110663
7/16"	65 mm	102 mm	110671	110672	110673
15/32"	65 mm	102 mm	110681	110682	110683
1/2"	65 mm	102 mm	110691	110692	110693



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Dexter Lawson x 4½" (Baum RB, Miller HFD)

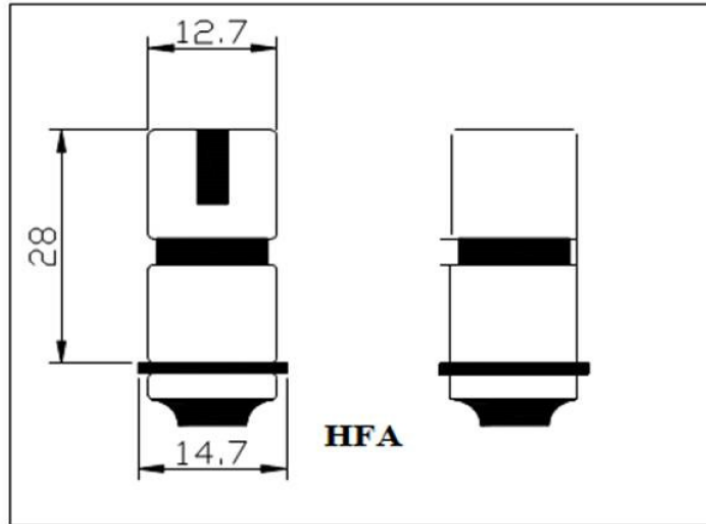
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
6.0 mm	75 mm	113 mm	110801	110802	110803
6.5 mm	75 mm	113 mm	110811	110812	110813
7.0 mm	75 mm	113 mm	110821	110822	110823
7.5 mm	75 mm	113 mm	110831	110832	110833
8.0 mm	75 mm	113 mm	110841	110842	110843
8.5 mm	75 mm	113 mm	110851	110852	110853
9.0 mm	75 mm	113 mm	110861	110862	110863
9.5 mm	75 mm	113 mm	110871	110872	110873
10.0 mm	75 mm	113 mm	110881	110882	110883
10.5 mm	75 mm	113 mm	110891	110892	110893
11.0 mm	75 mm	113 mm	110901	110902	110903
11.5 mm	75 mm	113 mm	110911	110912	110913
12.0 mm	75 mm	113 mm	110921	110922	110923
12.5 mm	75 mm	113 mm	110931	110932	110933
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/4"	75 mm	113 mm	111001	111002	111003
9/32"	75 mm	113 mm	111011	111012	111013
5/16"	75 mm	113 mm	111021	111022	111023
11/32"	75 mm	113 mm	111031	111032	111033
3/8"	75 mm	113 mm	111041	111042	111043
13/32"	75 mm	113 mm	111051	111052	111053
7/16"	75 mm	113 mm	111061	111062	111063
15/32"	75 mm	113 mm	111071	111072	111073
1/2"	75 mm	113 mm	111081	111082	111083



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HFA x 3½" (Seybold, Systemram)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	89 mm	115001	115002	115003
3.5 mm	35 mm	89 mm	115011	115012	115013
4.0 mm	40 mm	89 mm	115021	115022	115023
4.5 mm	45 mm	89 mm	115031	115032	115033
5.0 mm	50 mm	89 mm	115041	115042	115043
5.5 mm	50 mm	89 mm	115051	115052	115053
6.0 mm	50 mm	89 mm	115061	115062	115063
6.5 mm	50 mm	89 mm	115071	115072	115073
7.0 mm	50 mm	89 mm	115081	115082	115083
7.5 mm	50 mm	89 mm	115091	115092	115093
8.0 mm	50 mm	89 mm	115101	115102	115103
8.5 mm	50 mm	89 mm	115111	115112	115113
9.0 mm	50 mm	89 mm	115121	115122	115123
9.5 mm	50 mm	89 mm	115131	115132	115133
10.0 mm	50 mm	89 mm	115141	115142	115143
10.5 mm	50 mm	89 mm	115151	115152	115153
11.0 mm	50 mm	89 mm	115161	115162	115163
11.5 mm	50 mm	89 mm	115171	115172	115173
12.0 mm	50 mm	89 mm	115181	115182	115183
12.5 mm	50 mm	89 mm	115191	115192	115193
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/8"	30 mm	89 mm	115201	115202	115203
5/32"	40 mm	89 mm	115211	115212	115213
3/16"	45 mm	89 mm	115221	115222	115223
7/32"	50 mm	89 mm	115231	115232	115233



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1/4"	50 mm	89 mm	115241	115242	115243
9/32"	50 mm	89 mm	115251	115252	115253
5/16"	50 mm	89 mm	115261	115262	115263
11/32"	50 mm	89 mm	115271	115272	115273
3/8"	50 mm	89 mm	115281	115282	115283
13/32"	50 mm	89 mm	115291	115292	115293
7/16"	50 mm	89 mm	115301	115302	115303
15/32"	50 mm	89 mm	115311	115312	115313
1/2"	50 mm	89 mm	115321	115322	115323



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HFA x 4" (Seybold, Systemram)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
5.0 mm	65 mm	102 mm	115401	115402	115403
5.5 mm	65 mm	102 mm	115411	115412	115413
6.0 mm	65 mm	102 mm	115421	115422	115423
6.5 mm	65 mm	102 mm	115431	115432	115433
7.0 mm	65 mm	102 mm	115441	115442	115443
7.5 mm	65 mm	102 mm	115451	115452	115453
8.0 mm	65 mm	102 mm	115461	115462	115463
8.5 mm	65 mm	102 mm	115471	115472	115473
9.0 mm	65 mm	102 mm	115481	115482	115483
9.5 mm	65 mm	102 mm	115491	115492	115493
10.0 mm	65 mm	102 mm	115501	115502	115503
10.5 mm	65 mm	102 mm	115511	115512	115513
11.0 mm	65 mm	102 mm	115521	115522	115523
11.5 mm	65 mm	102 mm	115531	115532	115533
12.0 mm	65 mm	102 mm	115541	115542	115543
12.5 mm	65 mm	102 mm	115551	115552	115553
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
7/32"	65 mm	102 mm	115601	115602	115603
1/4"	65 mm	102 mm	115611	115612	115613
9/32"	65 mm	102 mm	115621	115622	115623
5/16"	65 mm	102 mm	115631	115632	115633
11/32"	65 mm	102 mm	115641	115642	115643
3/8"	65 mm	102 mm	115651	115652	115653
13/32"	65 mm	102 mm	115661	115662	115663
7/16"	65 mm	102 mm	115671	115672	115673
15/32"	65 mm	102 mm	115681	115682	115683
1/2"	65 mm	102 mm	115691	115692	115693



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HFA x 4½" (Seybold, Systemram)

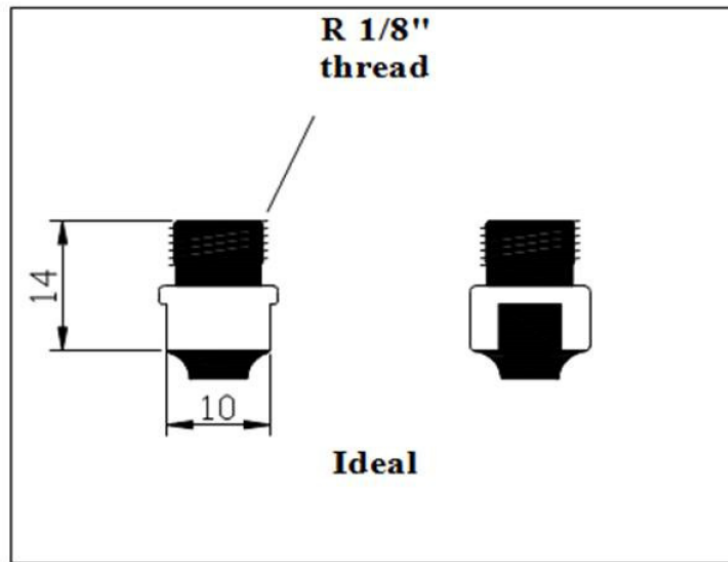
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
6.0 mm	75 mm	113 mm	115801	115802	115803
6.5 mm	75 mm	113 mm	115811	115812	115813
7.0 mm	75 mm	113 mm	115821	115822	115823
7.5 mm	75 mm	113 mm	115831	115832	115833
8.0 mm	75 mm	113 mm	115841	115842	115843
8.5 mm	75 mm	113 mm	115851	115852	115853
9.0 mm	75 mm	113 mm	115861	115862	115863
9.5 mm	75 mm	113 mm	115871	115872	115873
10.0 mm	75 mm	113 mm	115881	115882	115883
10.5 mm	75 mm	113 mm	115891	115892	115893
11.0 mm	75 mm	113 mm	115901	115902	115903
11.5 mm	75 mm	113 mm	115911	115912	115913
12.0 mm	75 mm	113 mm	115921	115922	115923
12.5 mm	75 mm	113 mm	115931	115932	115933
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/4"	75 mm	113 mm	116001	116002	116003
9/32"	75 mm	113 mm	116011	116012	116013
5/16"	75 mm	113 mm	116021	116022	116023
11/32"	75 mm	113 mm	116031	116032	116033
3/8"	75 mm	113 mm	116041	116042	116043
13/32"	75 mm	113 mm	116051	116052	116053
7/16"	75 mm	113 mm	116061	116062	116063
15/32"	75 mm	113 mm	116071	116072	116073
1/2"	75 mm	113 mm	116081	116082	116083



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Ideal (Tedeco)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
2.0 mm	15 mm	40 mm	120001	120002	120003
2.5 mm	25 mm	45 mm	120011	120012	120013
3.0 mm	30 mm	50 mm	120021	120022	120023
3.5 mm	35 mm	55 mm	120031	120032	120033
4.0 mm	40 mm	60 mm	120041	120042	120043
4.5 mm	45 mm	65 mm	120051	120052	120053
5.0 mm	45 mm	65 mm	120061	120062	120063
5.5 mm	45 mm	65 mm	120071	120072	120073
6.0 mm	45 mm	65 mm	120081	120082	120083
6.5 mm	45 mm	65 mm	120091	120092	120093
7.0 mm	45 mm	65 mm	120101	120102	120103
7.5 mm	45 mm	65 mm	120111	120112	120113
8.0 mm	45 mm	65 mm	120121	120122	120123



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Ideal x 65 (Tedeco)

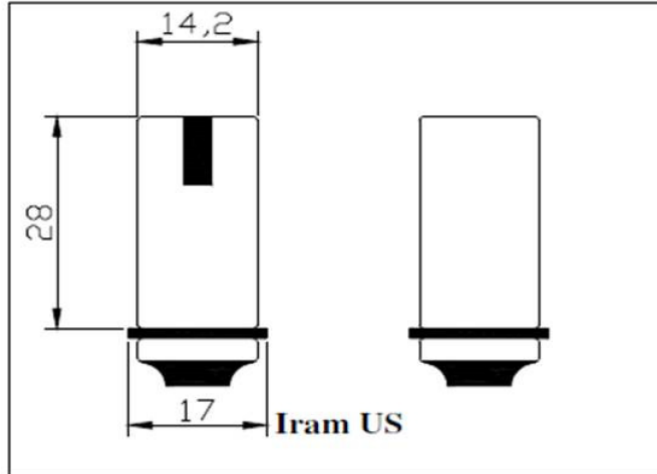
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	65 mm	120201	120202	120203
3.5 mm	35 mm	65 mm	120211	120212	120213
4.0 mm	40 mm	65 mm	120221	120222	120223
4.5 mm	45 mm	65 mm	120231	120232	120233
5.0 mm	65 mm	85 mm	120241	120242	120243
5.5 mm	65 mm	85 mm	120251	120252	120253
6.0 mm	65 mm	85 mm	120261	120262	120263
6.5 mm	65 mm	85 mm	120271	120272	120273
7.0 mm	65 mm	85 mm	120281	120282	120283
7.5 mm	65 mm	85 mm	120291	120292	120293
8.0 mm	65 mm	85 mm	120301	120302	120303



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Iram US x 3½" (Iram US-style)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	89 mm	122001	122002	122003
3.5 mm	35 mm	89 mm	122011	122012	122013
4.0 mm	40 mm	89 mm	122021	122022	122023
4.5 mm	45 mm	89 mm	122031	122032	122033
5.0 mm	50 mm	89 mm	122041	122042	122043
5.5 mm	50 mm	89 mm	122051	122052	122053
6.0 mm	50 mm	89 mm	122061	122062	122063
6.5 mm	50 mm	89 mm	122071	122072	122073
7.0 mm	50 mm	89 mm	122081	122082	122083
7.5 mm	50 mm	89 mm	122091	122092	122093
8.0 mm	50 mm	89 mm	122101	122102	122103
8.5 mm	50 mm	89 mm	122111	122112	122113
9.0 mm	50 mm	89 mm	122121	122122	122123
9.5 mm	50 mm	89 mm	122131	122132	122133
10.0 mm	50 mm	89 mm	122141	122142	122143
10.5 mm	50 mm	89 mm	122151	122152	122153
11.0 mm	50 mm	89 mm	122161	122162	122163
11.5 mm	50 mm	89 mm	122171	122172	122173
12.0 mm	50 mm	89 mm	122181	122182	122183
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/8"	30 mm	89 mm	122201	122202	122203
5/32"	40 mm	89 mm	122211	122212	122213
3/16"	45 mm	89 mm	122221	122222	122223
7/32"	50 mm	89 mm	122231	122232	122233
1/4"	50 mm	89 mm	122241	122242	122243
9/32"	50 mm	89 mm	122251	122252	122253



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5/16"	50 mm	89 mm	122261	122262	122263
11/32"	50 mm	89 mm	122271	122272	122273
3/8"	50 mm	89 mm	122281	122282	122283
13/32"	50 mm	89 mm	122291	122292	122293
1/2"	50 mm	89 mm	122321	122322	122323

Iram US x 4" (Iram US-style)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
5.0 mm	65 mm	102 mm	122401	122402	122403
5.5 mm	65 mm	102 mm	122411	122412	122413
6.0 mm	65 mm	102 mm	122421	122422	122423
6.5 mm	65 mm	102 mm	122431	122432	122433
7.0 mm	65 mm	102 mm	122441	122442	122443
7.5 mm	65 mm	102 mm	122451	122452	122453
8.0 mm	65 mm	102 mm	122461	122462	122463
8.5 mm	65 mm	102 mm	122471	122472	122473
9.0 mm	65 mm	102 mm	122481	122482	122483
9.5 mm	65 mm	102 mm	122491	122492	122493
10.0 mm	65 mm	102 mm	122501	122502	122503
10.5 mm	65 mm	102 mm	122511	122512	122513
11.0 mm	65 mm	102 mm	122521	122522	122523
11.5 mm	65 mm	102 mm	122531	122532	122533
12.0 mm	65 mm	102 mm	122541	122542	122543
12.5 mm	65 mm	102 mm	122551	122552	122553
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
7/32"	65 mm	102 mm	122601	122602	122603
1/4"	65 mm	102 mm	122611	122612	122613
9/32"	65 mm	102 mm	122621	122622	122623
5/16"	65 mm	102 mm	122631	122632	122633
11/32"	65 mm	102 mm	122641	122642	122643
3/8"	65 mm	102 mm	122651	122652	122653
13/32"	65 mm	102 mm	122661	122662	122663
7/16"	65 mm	102 mm	122671	122672	122673
15/32"	65 mm	102 mm	122681	122682	122683
1/2"	65 mm	102 mm	122691	122692	122693



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Iram US x 4½" (Iram US-Style)

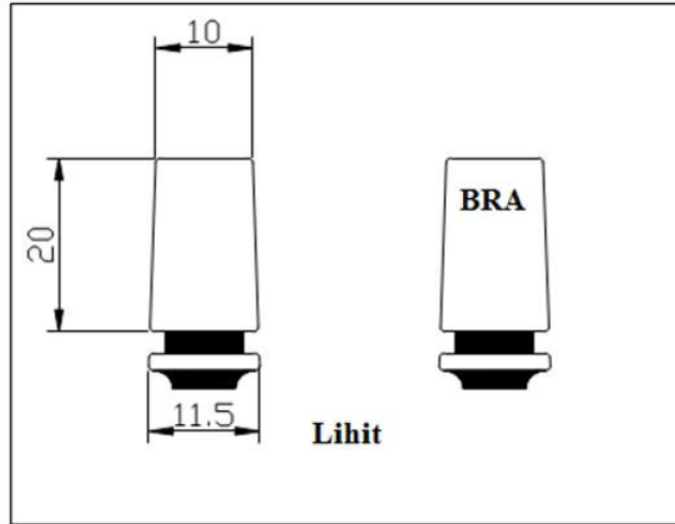
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
6.0 mm	75 mm	113 mm	122801	122802	122803
6.5 mm	75 mm	113 mm	122811	122812	122813
7.0 mm	75 mm	113 mm	122821	122822	122823
7.5 mm	75 mm	113 mm	122831	122832	122833
8.0 mm	75 mm	113 mm	122841	122842	122843
8.5 mm	75 mm	113 mm	122851	122852	122853
9.0 mm	75 mm	113 mm	122861	122862	122863
9.5 mm	75 mm	113 mm	122871	122872	122873
10.0 mm	75 mm	113 mm	122881	122882	122883
10.5 mm	75 mm	113 mm	122891	122892	122893
11.0 mm	75 mm	113 mm	122901	122902	122903
11.5 mm	75 mm	113 mm	122911	122912	122913
12.0 mm	75 mm	113 mm	122921	122922	122923
12.5 mm	75 mm	113 mm	122931	122932	122933
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/4"	75 mm	113 mm	123001	123002	123003
9/32"	75 mm	113 mm	123011	123012	123013
5/16"	75 mm	113 mm	123021	123022	123023
11/32"	75 mm	113 mm	123031	123032	123033
3/8"	75 mm	113 mm	123041	123042	123043
13/32"	75 mm	113 mm	123051	123052	123053
7/16"	75 mm	113 mm	123061	123062	123063
15/32"	75 mm	113 mm	123071	123072	123073
1/2"	75 mm	113 mm	123081	123082	123083



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Lihit 52 (Filepecker, Imperial, Lihit Autopuncher, Martin Yale, SPC)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	25 mm	52 mm	125001	125002	125003
3.5 mm	25 mm	52 mm	125011	125012	125013
4.0 mm	25 mm	52 mm	125021	125022	125023
4.5 mm	25 mm	52 mm	125031	125032	125033
5.0 mm	25 mm	52 mm	125041	125042	125043
5.5 mm	25 mm	52 mm	125051	125052	125053
6.0 mm	25 mm	52 mm	125061	125062	125063
6.5 mm	25 mm	52 mm	125071	125072	125073
7.0 mm	25 mm	52 mm	125081	125082	125083
7.5 mm	25 mm	52 mm	125091	125092	125093
8.0 mm	25 mm	52 mm	125101	125102	125103
8.5 mm	25 mm	52 mm	125111	125112	125113
9.0 mm	25 mm	52 mm	125121	125122	125123
9.5 mm	25 mm	52 mm	125131	125132	125133
10.0 mm	25 mm	52 mm	125141	125142	125143
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3/16"	25 mm	52 mm	125151	125152	125153
1/4"	25 mm	52 mm	125161	125162	125163
1 1/32"	25 mm	52 mm	125171	125172	125173



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Lihit 80 (Filepecker, Imperial, Lihit Autopuncher, Martin Yale, SPC)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	80 mm	125201	125202	125203
3.5 mm	35 mm	80 mm	125211	125212	125213
4.0 mm	40 mm	80 mm	125221	125222	125223
4.5 mm	45 mm	80 mm	125231	125232	125233
5.0 mm	50 mm	80 mm	125241	125242	125243
5.5 mm	50 mm	80 mm	125251	125252	125253
6.0 mm	50 mm	80 mm	125261	125262	125263
6.5 mm	50 mm	80 mm	125271	125272	125273
7.0 mm	50 mm	80 mm	125281	125282	125283
7.5 mm	50 mm	80 mm	125291	125292	125293
8.0 mm	50 mm	80 mm	125301	125302	125303
8.5 mm	50 mm	80 mm	125311	125312	125313
9.0 mm	50 mm	80 mm	125321	125322	125323
9.5 mm	50 mm	80 mm	125331	125332	125333
10.0 mm	50 mm	80 mm	125341	125342	125343
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3/16"	50 mm	80 mm	125351	125352	125353
1/4"	50 mm	80 mm	125361	125362	125363
11/32"	50 mm	80 mm	125371	125372	125373



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Lihit 95 (Filepecker, Imperial, Lihit Autopuncher, Martin Yale, SPC)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
4.0 mm	40 mm	95 mm	125601	125602	125603
4.5 mm	45 mm	95 mm	125611	125612	125613
5.0 mm	65 mm	95 mm	125621	125622	125623
5.5 mm	65 mm	95 mm	125631	125632	125633
6.0 mm	65 mm	95 mm	125641	125642	125643
6.5 mm	65 mm	95 mm	125651	125652	125653
7.0 mm	65 mm	95 mm	125661	125662	125663
7.5 mm	65 mm	95 mm	125671	125672	125673
8.0 mm	65 mm	95 mm	125681	125682	125683
8.5 mm	65 mm	95 mm	125691	125692	125693
9.0 mm	65 mm	95 mm	125701	125702	125703
9.5 mm	65 mm	95 mm	125711	125712	125713
10.0 mm	65 mm	95 mm	125721	125722	125723
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
5/32"	40 mm	95 mm	125751	125752	125753
3/16"	45 mm	95 mm	125761	125762	125763
1/4"	65 mm	95 mm	125771	125772	125773
11/32"	65 mm	95 mm	125781	125782	125783

Lihit 135 (Filepecker, Imperial, Lihit Autopuncher, Martin Yale, SPC)

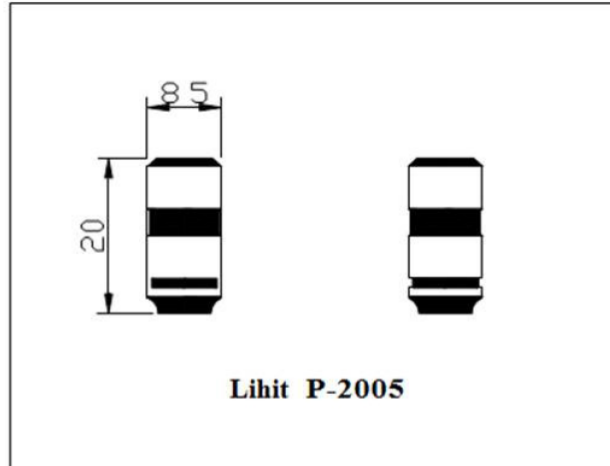
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
6.0 mm	100 mm	135 mm	125801	125802	125803
6.5 mm	100 mm	135 mm	125811	125812	125813
7.0 mm	100 mm	135 mm	125821	125822	125823
7.5 mm	100 mm	135 mm	125831	125832	125833
8.0 mm	100 mm	135 mm	125841	125842	125843
8.5 mm	100 mm	135 mm	125851	125852	125853
9.0 mm	100 mm	135 mm	125861	125862	125863
9.5 mm	100 mm	135 mm	125871	125872	125873
10.0 mm	100 mm	135 mm	125881	125882	125883
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/4"	100 mm	135 mm	125951	125952	125952
11/32"	100 mm	135 mm	125961	125962	125962



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Lihit P-2005

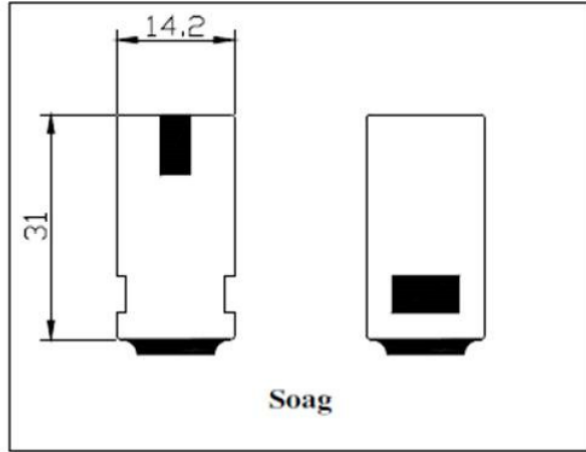
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	70 mm	126001	126002	126003
3.5 mm	35 mm	70 mm	126011	126012	126013
4.0 mm	40 mm	70 mm	126021	126022	126023
4.5 mm	45 mm	70 mm	126031	126032	126033
5.0 mm	50 mm	70 mm	126041	126042	126043
5.5 mm	50 mm	70 mm	126051	126052	126053
6.0 mm	50 mm	70 mm	126061	126062	126063
6.5 mm	50 mm	70 mm	126071	126072	126073
7.0 mm	50 mm	70 mm	126081	126082	126083
7.5 mm	50 mm	70 mm	126091	126092	126093
8.0 mm	50 mm	70 mm	126101	126102	126103



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Soag x 3 1/2"

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	89 mm	150001	150002	150003
3.5 mm	35 mm	89 mm	150011	150012	150013
4.0 mm	40 mm	89 mm	150021	150022	150023
4.5 mm	45 mm	89 mm	150031	150032	150033
5.0 mm	50 mm	89 mm	150041	150042	150043
5.5 mm	50 mm	89 mm	150051	150052	150053
6.0 mm	50 mm	89 mm	150061	150062	150063
6.5 mm	50 mm	89 mm	150071	150072	150073
7.0 mm	50 mm	89 mm	150081	150082	150083
7.5 mm	50 mm	89 mm	150091	150092	150093
8.0 mm	50 mm	89 mm	150101	150102	150103
8.5 mm	50 mm	89 mm	150111	150112	150113
9.0 mm	50 mm	89 mm	150121	150122	150123
9.5 mm	50 mm	89 mm	150131	150132	150133
10.0 mm	50 mm	89 mm	150141	150142	150143
10.5 mm	50 mm	89 mm	150151	150152	150153
11.0 mm	50 mm	89 mm	150161	150162	150163
11.5 mm	50 mm	89 mm	150171	150172	150173
12.0 mm	50 mm	89 mm	150181	150182	150183
12.5 mm	50 mm	89 mm	150191	150192	150193
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/8"	30 mm	89 mm	150201	150202	150203
5/32"	40 mm	89 mm	150211	150212	150213
3/16"	45 mm	89 mm	150221	150222	150223
7/32"	50 mm	89 mm	150231	150232	150233
1/4"	50 mm	89 mm	150241	150242	150243
9/32"	50 mm	89 mm	150251	150252	150253



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5/16"	50 mm	89 mm	150261	150262	150263
11/32"	50 mm	89 mm	150271	150272	150273
3/8"	50 mm	89 mm	150281	150282	150283
13/32"	50 mm	89 mm	150291	150292	150293
7/16"	50 mm	89 mm	150301	150302	150303
15/32"	50 mm	89 mm	150311	150312	150313
1/2"	50 mm	89 mm	150321	150322	150323

Soag x 4"

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
5.0 mm	65 mm	102 mm	150401	150402	150403
5.5 mm	65 mm	102 mm	150411	150412	150413
6.0 mm	65 mm	102 mm	150421	150422	150423
6.5 mm	65 mm	102 mm	150431	150432	150433
7.0 mm	65 mm	102 mm	150441	150442	150443
7.5 mm	65 mm	102 mm	150451	150452	150453
8.0 mm	65 mm	102 mm	150461	150462	150463
8.5 mm	65 mm	102 mm	150471	150472	150473
9.0 mm	65 mm	102 mm	150481	150482	150483
9.5 mm	65 mm	102 mm	150491	150492	150493
10.0 mm	65 mm	102 mm	150501	150502	150503
10.5 mm	65 mm	102 mm	150511	150512	150513
11.0 mm	65 mm	102 mm	150521	150522	150523
11.5 mm	65 mm	102 mm	150531	150532	150533
12.0 mm	65 mm	102 mm	150541	150542	150543
12.5 mm	65 mm	102 mm	150551	150552	150553
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
7/32"	65 mm	102 mm	150601	150602	150603
1/4"	65 mm	102 mm	150611	150612	150613
9/32"	65 mm	102 mm	150621	150622	150623
5/16"	65 mm	102 mm	150631	150632	150633
11/32"	65 mm	102 mm	150641	150642	150643
3/8"	65 mm	102 mm	150651	150652	150653
13/32"	65 mm	102 mm	150661	150662	150663
7/16"	65 mm	102 mm	150671	150672	150673
15/32"	65 mm	102 mm	150681	150682	150683
1/2"	65 mm	102 mm	150691	150692	150693



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Soag x 4½"

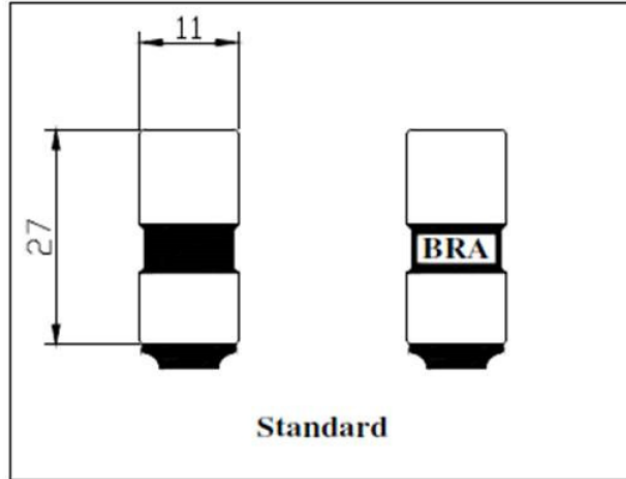
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
6.0 mm	75 mm	113 mm	150801	150802	150803
6.5 mm	75 mm	113 mm	150811	150812	150813
7.0 mm	75 mm	113 mm	150821	150822	150823
7.5 mm	75 mm	113 mm	150831	150832	150833
8.0 mm	75 mm	113 mm	150841	150842	150843
8.5 mm	75 mm	113 mm	150851	150852	150853
9.0 mm	75 mm	113 mm	150861	150862	150863
9.5 mm	75 mm	113 mm	150871	150872	150873
10.0 mm	75 mm	113 mm	150881	150882	150883
10.5 mm	75 mm	113 mm	150891	150892	150893
11.0 mm	75 mm	113 mm	150901	150902	150903
11.5 mm	75 mm	113 mm	150911	150912	150913
12.0 mm	75 mm	113 mm	150921	150922	150923
12.5 mm	75 mm	113 mm	150931	150932	150933
Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
1/4"	75 mm	113 mm	151001	151002	151003
9/32"	75 mm	113 mm	151011	151012	151013
5/16"	75 mm	113 mm	151021	151022	151023
11/32"	75 mm	113 mm	151031	151032	151033
3/8"	75 mm	113 mm	151041	151042	151043
13/32"	75 mm	113 mm	151051	151052	151053
7/16"	75 mm	113 mm	151061	151062	151063
15/32"	75 mm	113 mm	151071	151072	151073
1/2"	75 mm	113 mm	151081	151082	151083



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Standard x 50 (Babs, Citoborma, Concord, Corta, Euro-drills, Foellmer, Forest, Hang, Iram, Kobold, Morgana, Muro, Nagel, OMM Venus, Pesca, Stago, Uchida)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
2.0 mm	25 mm	60 mm	155201	155202	155203
2.3 mm	25 mm	60 mm	155211	155212	155213
2.5 mm	25 mm	60 mm	155221	155222	155223
3.0 mm	30 mm	65 mm	155231	155232	155233
3.5 mm	35 mm	70 mm	155241	155242	155243
4.0 mm	40 mm	75 mm	155251	155252	155253
4.5 mm	45 mm	80 mm	155261	155262	155263
5.0 mm	50 mm	85 mm	155271	155272	155273
5.5 mm	50 mm	85 mm	155281	155282	155283
6.0 mm	50 mm	85 mm	155291	155292	155293
6.5 mm	50 mm	85 mm	155301	155302	155303
7.0 mm	50 mm	85 mm	155311	155312	155313
7.5 mm	50 mm	85 mm	155321	155322	155323
8.0 mm	50 mm	85 mm	155331	155332	155333
8.5 mm	50 mm	85 mm	155341	155342	155343
9.0 mm	50 mm	85 mm	155351	155352	155353
9.5 mm	50 mm	85 mm	155361	155362	155363
10.0 mm	50 mm	85 mm	155371	155372	155373
10.5 mm	50 mm	85 mm	155381	155382	155383
11.0 mm	50 mm	85 mm	155391	155392	155393



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Standard x 65 (Iram) (Babs, Citoborma, Concord, Corta, Euro-drills, Foellmer, Forest, Hang, Iram, Kobold, Morgana, Muro, Nagel, OMM Venus, Pesca, Stago, Uchida)

Diameter	Drill Depth	Total Length	Normal	BRACOAT	HMT
3.0 mm	30 mm	85 mm	155601	155602	155603
3.5 mm	35 mm	85 mm	155611	155612	155613
4.0 mm	40 mm	85 mm	155621	155622	155623
4.5 mm	45 mm	85 mm	155631	155632	155633
5.0 mm	65 mm	100 mm	155641	155642	155643
5.5 mm	65 mm	100 mm	155651	155652	155653
6.0 mm	65 mm	100 mm	155661	155662	155663
6.5 mm	65 mm	100 mm	155671	155672	155673
7.0 mm	65 mm	100 mm	155681	155682	155683
7.5 mm	65 mm	100 mm	155691	155692	155693
8.0 mm	65 mm	100 mm	155701	155702	155703
8.5 mm	65 mm	100 mm	155711	155712	155713
9.0 mm	65 mm	100 mm	155721	155722	155723
9.5 mm	65 mm	100 mm	155731	155732	155733
10.0 mm	65 mm	100 mm	155741	155742	155743
10.5 mm	65 mm	100 mm	155751	155752	155753
11.0 mm	65 mm	100 mm	155761	155762	155763