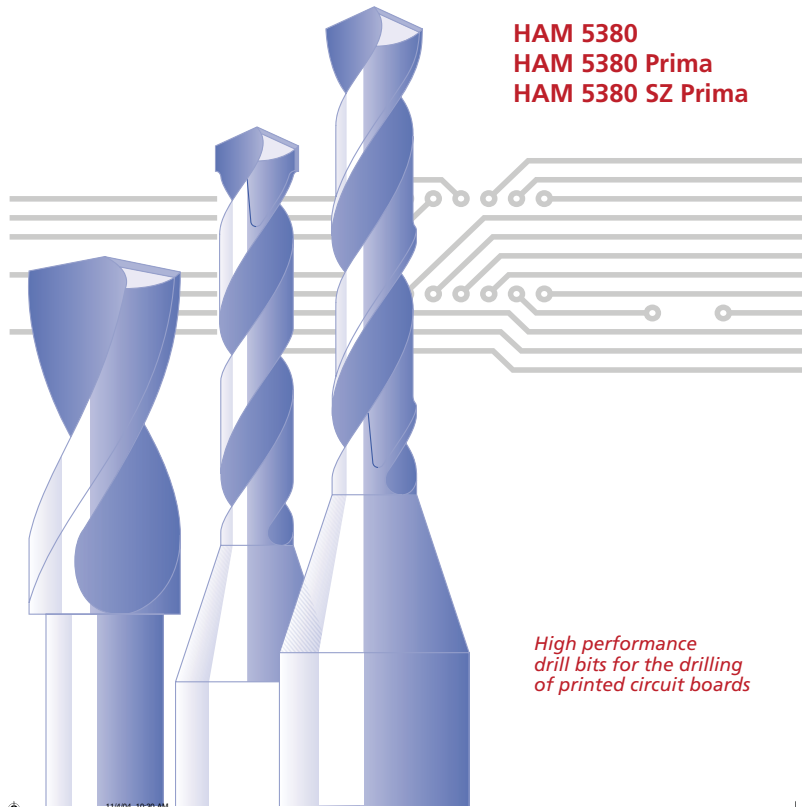




HAMPRIMA

THE NEW GENERATION OF PCB CUTTING TOOLS

**HAM 5380
HAM 5380 Prima
HAM 5380 SZ Prima**



*High performance
drill bits for the drilling
of printed circuit boards*



HAM Precision Tools, Andreas Maier Inc.
W237 N2889 Woodgate Road, Suite B
Pewaukee, WI 53072

Tel: 262.523.4114 Fax 262.523.4116
www.hamprecision.com



Reg. Nr. 2949-01

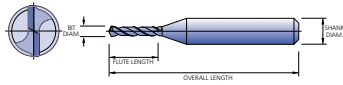


The new generation of HAM Drills is produced using only the finest micro grain carbide (<0.4 micron)

HAM 5380 Prima

High performance solid carbide drills

- New wear resistant carbide
- Shank diameter 1/8
- Overall length 1 1/2
- Right - hand cut



DIAMETER Size Inch	FLUTE LENGTH
#75 .0210	.275 .335
0.55mm .0217	
#74 .0225	
0.60mm .0236	
#73 .0240	
#72 .0250	
0.65mm .0256	
#71 .0260	

DIAMETER Size Inch	FLUTE LENGTH 4-high
0.70mm .0276	.413
#70 .0280	
#69 .0292	
0.75mm .0295	
#68 .0310	
1/32 .0312	
0.80mm .0315	
#67 .0320	
#66 .0330	
0.85mm .0335	
#65 .0350	
0.90mm .0354	
#64 .0360	
#63 .0370	
0.95mm .0374	
#62 .0380	
#61 .0390	
1.00mm .0394	
#60 .0400	
#59 .0410	
1.05mm .0413	
#58 .0420	
#57 .0430	
1.10mm .0433	
1.12mm .0441	
1.15mm .0453	

DIAMETER Size Inch	FLUTE LENGTH
#56 .0465	.413
3/64 .0469	
1.20mm .0472	
1.25mm .0492	
1.30mm .0512	
#55 .0520	
1.35mm .0531	
#54 .0550	
1.40mm .0551	
1.45mm .0571	
1.50mm .0591	
#53 .0595	
1.55mm .0610	
1/16 .0625	
1.60mm .0630	
#52 .0635	
1.65mm .0650	
1.70mm .0669	
#51 .0670	
1.75mm .0689	
#50 .0700	
1.80mm .0709	
1.85mm .0728	
#49 .0730	
1.90mm .0748	
#48 .0760	
1.95mm .0768	
5/64 .0781	
#47 .0785	
2.00mm .0787	
2.05mm .0807	
#46 .0810	
#45 .0820	
2.10mm .0827	
2.15mm .0846	
#44 .0860	

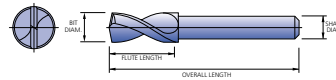
DIAMETER Size Inch	FLUTE LENGTH
2.20mm .0866	.413
2.25mm .0886	
#43 .0890	
2.30mm .0906	
2.35mm .0925	
#42 .0935	
3/32 .0938	
2.40mm .0945	
#41 .0960	
2.45mm .0965	
#40 .0980	
2.50mm .0984	
#39 .0995	
2.55mm .1004	
#38 .1015	
2.60mm .1024	
#37 .1040	
2.65mm .1043	
2.70mm .1063	
#36 .1065	
2.75mm .1083	
7/64 .1094	
#35 .1100	
2.80mm .1102	
#34 .1110	
2.85mm .1122	
#33 .1130	
2.90mm .1142	
#32 .1160	
2.95mm .1161	
3.00mm .1181	
#31 .1200	
3.05mm .1201	
3.10mm .1220	
3.15mm .1240	
1/8 .1250	
0.551	

For solid carbide micro drills dia. .0020" thru .0210" please see our leaflet HAM MICRO-VIA 5382.

HAM 5380

Solid carbide drills

- New wear resistant carbide
- Shank diameter 1/8
- Overall length 1 1/2
- Right - hand cut



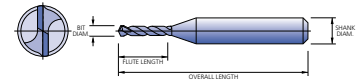
Flute Length (All Diameters) = .472

DIAMETER Size Inch	DIAMETER Size Inch	DIAMETER Size Inch
3.20mm .1260	4.35mm .1713	5.40mm .2126
3.25mm .1280	1 1/64 .1719	#3 .2130
#30 .1285	#17 .1730	5.45mm .2146
3.30mm .1299	4.40mm .1732	5.50mm .2165
3.35mm .1319	4.45mm .1752	5.55mm .2185
3.40mm .1339	#16 .1770	7/32 .2188
3.45mm .1358	4.50mm .1772	5.60mm .2205
#29 .1360	4.55mm .1791	#2 .2210
3.50mm .1378	#15 .1800	5.65mm .2224
3.55mm .1398	4.60mm .1811	5.70mm .2244
#28 .1405	#14 .1820	5.75mm .2264
9/64 .1406	4.65mm .1831	#1 .2280
3.60mm .1417	#13 .1850	5.80mm .2283
3.65mm .1437	4.70mm .1850	5.85mm .2302
#27 .1440	4.75mm .1870	5.90mm .2323
3.70mm .1457	3/16 .1875	A .2340
#26 .1470	4.80mm .1890	5.95mm .2343
3.75mm .1476	#12 .1890	15/64 .2344
#25 .1495	4.85mm .1909	6.00mm .2362
3.80mm .1496	#11 .1910	B .2380
3.85mm .1516	4.90mm .1929	6.05mm .2382
#24 .1520	#10 .1935	6.10mm .2402
3.90mm .1535	4.95mm .1949	C .2420
#23 .1540	#9 .1960	6.15mm .2421
3.95mm .1555	5.00mm .1968	6.20mm .2441
5/32 .1562	5.05mm .1988	D .2460
#22 .1570	#8 .1990	6.25mm .2461
4.00mm .1575	5.10mm .2008	6.30mm .2480
#21 .1590	#7 .2010	6.35mm .2500
4.05mm .1594	5.15mm .2028	E .2500
#20 .1610	13/64 .2031	1/4 .2500
4.10mm .1614	#6 .2040	6.40mm .2520
4.15mm .1634	5.20mm .2047	6.50mm .2559
4.20mm .1654	#5 .2055	F .2570
#19 .1660	5.25mm .2067	7.00mm .2756
4.25mm .1673	5.30mm .2087	7.50mm .2953
4.30mm .1693	#4 .2090	8.00mm .3150
#18 .1695	5.35mm .2106	9.00mm .3543
		10.00mm .3937

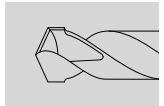
HAM 5380 SZ Prima

High performance solid carbide undercut drills

- New wear resistant carbide
- Shank diameter 1/8
- Overall length 1 1/2
- Right - hand cut



DIAMETER Size Inch	FLUTE LENGTH
#75 .0210	.275 .335
0.55mm .0217	
#74 .0225	
0.60mm .0236	
#73 .0240	
#72 .0250	
0.65mm .0256	
#71 .0260	



Drilling of multilayer circuit boards — absolutely frictional roughness of hole wall — reduced frictional heat, thus reduced smear

DIAMETER Size Inch	FLUTE LENGTH	DIAMETER Size Inch	FLUTE LENGTH
0.70mm .0276	.413	#59 .0410	.413
#70 .0280			
#69 .0292			
0.75mm .0295			
#68 .0310			
1/32 .0312			
0.80mm .0315			
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