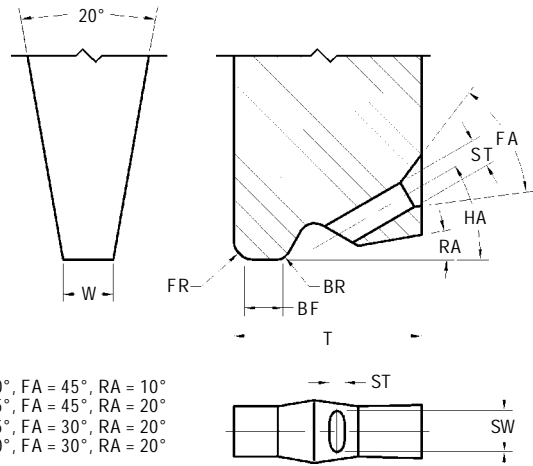
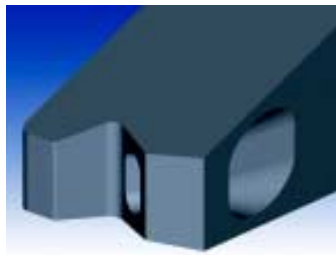


RIBBON WIRE BONDING TOOLS



RW30 HA = 30°, FA = 45°, RA = 10°
 RW45 HA = 45°, FA = 45°, RA = 20°
 RW55 HA = 55°, FA = 30°, RA = 20°
 RW60 HA = 60°, FA = 30°, RA = 20°

STANDARD DIMENSIONS

Tool Styles	Slot Width/Bond Flat SW / BF	Ribbon Width RW	Ribbon Thickness RT	Slot Width SW	Slot Thickness ST	Bond Foot BF	Foot Width W	Clearance 30° & 45° Slots C	Clearance 55° Slots C	Tip Thickness 30° Slots T	Tip Thickness 45° Slots T	Tip Thickness 55°/60° Slots T
		in / μm Ref	in / μm Ref	in / μm ±.0003/8	in / μm ±.0003/8	in / μm ±.0002/5	in / μm ±.0002/5	in / μm Ref	in / μm Ref	in / μm ±.0005/13	in / μm ±.0005/13	in / μm ±.0005/13
0420*	.0020 / 51	.0005 / 13	.0040 / 102	.0025 / 64	.0020 / 51	.0055 / 140	.0020 / 51	.0030 / 76	.0160 / 406	.0140 / 356	.0120 / 305	
0425	.0020 / 51	to	.0040 / 102	.0025 / 64	.0020 / 51	.0055 / 140	.0020 / 51	.0030 / 76	.0160 / 406	.0140 / 356	.0120 / 305	
0430	.0020 / 51	.0010 / 25	.0040 / 102	.0025 / 64	.0020 / 51	.0055 / 140	.0020 / 51	.0030 / 76	.0160 / 406	.0140 / 356	.0120 / 305	
0520	.0030 / 76		.0050 / 127	.0025 / 64	.0020 / 51	.0065 / 165	.0020 / 51	.0030 / 76	.0160 / 406	.0140 / 356	.0120 / 305	
0525*	.0030 / 76		.0050 / 127	.0025 / 64	.0025 / 64	.0065 / 165	.0020 / 51	.0030 / 76	.0160 / 406	.0140 / 356	.0120 / 305	
0530	.0030 / 76		.0050 / 127	.0025 / 64	.0030 / 76	.0065 / 165	.0020 / 51	.0030 / 76	.0180 / 457	.0150 / 381	.0140 / 356	
0540	.0030 / 76	.0005 / 13	.0050 / 127	.0025 / 64	.0040 / 102	.0065 / 165	.0020 / 51	.0030 / 76	.0180 / 457	.0150 / 381	.0140 / 356	
0620	.0040 / 102	to	.0060 / 152	.0025 / 64	.0020 / 51	.0075 / 191	.0020 / 51	.0030 / 76	.0160 / 406	.0140 / 356	.0120 / 305	
0625	.0040 / 102	.0010 / 25	.0060 / 152	.0025 / 64	.0025 / 64	.0075 / 191	.0020 / 51	.0030 / 76	.0160 / 406	.0140 / 356	.0120 / 305	
0630*	.0040 / 102		.0060 / 152	.0025 / 64	.0030 / 76	.0075 / 191	.0020 / 51	.0030 / 76	.0160 / 406	.0150 / 381	.0140 / 356	
0640	.0040 / 102		.0060 / 152	.0025 / 64	.0040 / 102	.0075 / 191	.0020 / 51	.0030 / 76	.0160 / 406	.0150 / 381	.0140 / 356	
0725	.0050 / 127		.0070 / 178	.0030 / 76	.0025 / 64	.0085 / 216	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
0730	.0050 / 127		.0070 / 178	.0030 / 76	.0030 / 76	.0085 / 216	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
0740	.0050 / 127	.0005 / 13	.0070 / 178	.0030 / 76	.0040 / 102	.0085 / 216	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
0750	.0050 / 127	to	.0070 / 178	.0030 / 76	.0050 / 127	.0085 / 216	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
1125	.0070 / 178	.0020 / 51	.0110 / 279	.0030 / 76	.0025 / 64	.0125 / 318	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
1130	.0070 / 178		.0110 / 279	.0030 / 76	.0030 / 76	.0125 / 318	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
1140*	.0070 / 178		.0110 / 279	.0030 / 76	.0040 / 102	.0125 / 318	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
SW / BF	Ref	Ref	±.0005/13	±.0003/8	±.0002/5	±.0005/13	Ref	Ref	±.0005/13	±.0005/13	±.0005/13	
1425	.0100 / 254		.0140 / 356	.0030 / 76	.0025 / 64	.0155 / 394	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
1430	.0100 / 254		.0140 / 356	.0030 / 76	.0030 / 76	.0155 / 394	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
1440	.0100 / 254		.0140 / 356	.0030 / 76	.0040 / 102	.0155 / 394	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
1625	.0120 / 305		.0160 / 406	.0030 / 76	.0025 / 64	.0175 / 445	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
1630	.0120 / 305		.0160 / 406	.0030 / 76	.0030 / 76	.0175 / 445	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
1640*	.0120 / 305	.0005 / 13	.0160 / 406	.0030 / 76	.0040 / 102	.0175 / 445	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
1650	.0120 / 305	to	.0160 / 406	.0030 / 76	.0050 / 127	.0175 / 445	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
1925	.0150 / 381	.0020 / 51	.0190 / 483	.0030 / 76	.0025 / 64	.0205 / 521	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
1930	.0150 / 381		.0190 / 483	.0030 / 76	.0030 / 76	.0205 / 521	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
1940*	.0150 / 381		.0190 / 483	.0030 / 76	.0040 / 102	.0205 / 521	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
2425	.0200 / 508		.0240 / 610	.0030 / 76	.0025 / 64	.0255 / 648	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
2430	.0200 / 508		.0240 / 610	.0030 / 76	.0030 / 76	.0255 / 648	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0140 / 356	
2440	.0200 / 508		.0240 / 610	.0030 / 76	.0040 / 102	.0255 / 648	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	
2450*	.0200 / 508		.0240 / 610	.0030 / 76	.0050 / 127	.0255 / 648	.0025 / 64	.0040 / 102	.0210 / 533	.0180 / 457	.0160 / 406	

- * Most commonly specified
- Standard FR and BR : FR = .0010" / 25μm and BR = .0003" / 8μm is standard.
- Max Ribbon size for a vertical shank (1/16) is .012" / 305μm ribbon.

RIBBON WIRE TOOLS - GENERAL GUIDELINES ON HOW TO ORDER

STYLE		FEED ANGLE
RW = RIBBON WIRE	SLIMLINE BACK	30°, 45°, 55°, 60°

MATERIAL	HOLE / BOND FLAT	TOOL LENGTH (TL)
C Cermet composite for Gold Wire (recommended for Low Temperature bonding)	Will rely on specific application requirements (wire diameter used, bond pad size) – see dimension Table	S = .437 / 11.1 mm
TI Titanium Carbide Composite for Gold Wire		¾ = .750 / 19.05 mm
W Tungsten Carbide Ultra Fine Grain for Aluminum Wire		L = .828 / 21.0 mm
		1.00 = 1.00 / 25.4 mm
		Longer lengths are available consult Bonder manufacturer for specifications.

FOOT OPTIONS	
FM	Flat foot design with the FR, BR and BF matte. (Standard)
CGM	Cross Groove with the FR and BR matte. Not recommended for BF smaller than .0020"/50µm

HOW TO ORDER	
SPECIFY	Style – Material – Tool Diameter – Tool Length – Foot Design
EXAMPLE	RW45 - TI - 1140 - 1/16 - L - CGM RW45 - TI - 0530 - 1/16 - L - FM