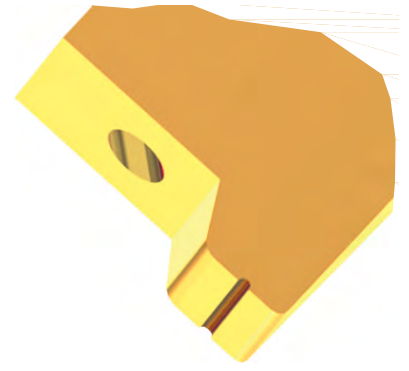
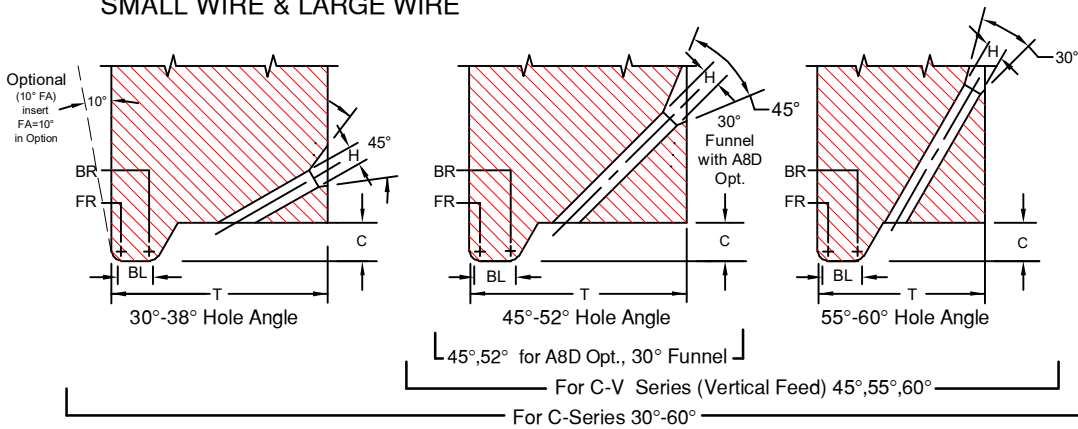


SERIES C & C-V

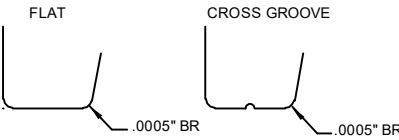
SMALL WIRE & LARGE WIRE

FOR MANUAL AND SEMI-AUTOMATIC BONDERS



Available Vertical Hole Ø marked with X

	TD		TDF		For Vertical Hole
	in.	mm	in.	mm	
1/16	.0624	1.59	.0460	1.17	
1/16	.0624	1.59	.0590	1.50	X
	.0784	1.99	.0630	1.60	
	.0784	1.99	.0720	1.83	X
3/32	.0937	2.38	.0880	2.24	X
	.1180	3.00	.0985	2.50	
1/8	.1249	3.17	.0937	2.38	
1/8	.1249	3.17	.1180	3.00	



We recommend a .0005" back radius and a cross groove or a flat bond foot when ordering tools for gold wire thermosonic bonding. For more gold wire application information see Tech Tip

C-SERIES SMALL WIRE

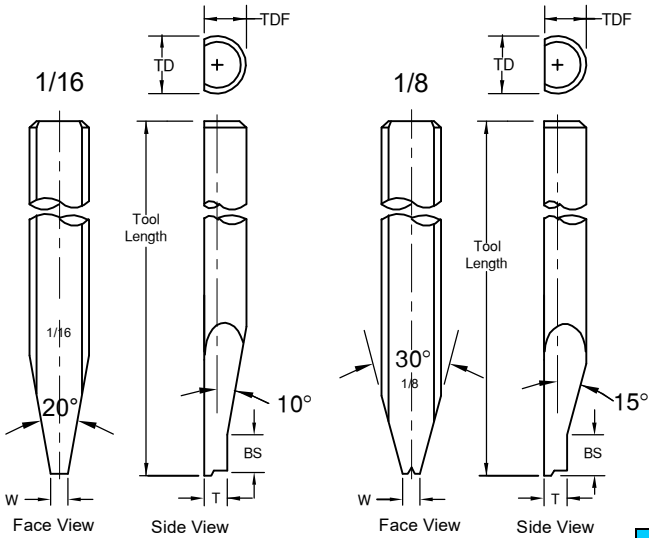
.0005" through .0020" wireØ

C-SERIES LARGE WIRE

For wire diameters .0030" through .0160"

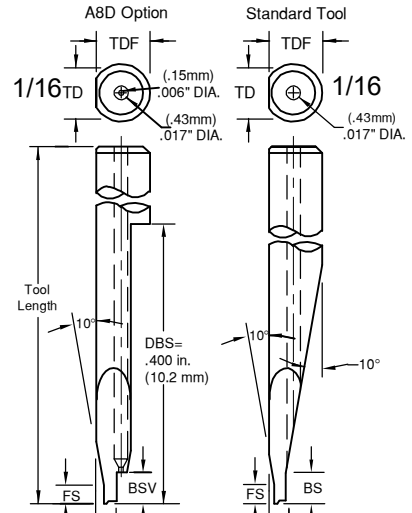
C-V SERIES VERTICAL FEED DEEP ACCESS

.0005" through .0020" wireØ



Standard: Ø 1/16, 45° to 52° Hole Angle : BS"=.045" (1.14mm) .
Supplies only to Standard size Ø1/16, larger tool Ø are different.
Standard: (BS) supplied unless otherwise specified. See Tool Options #A3

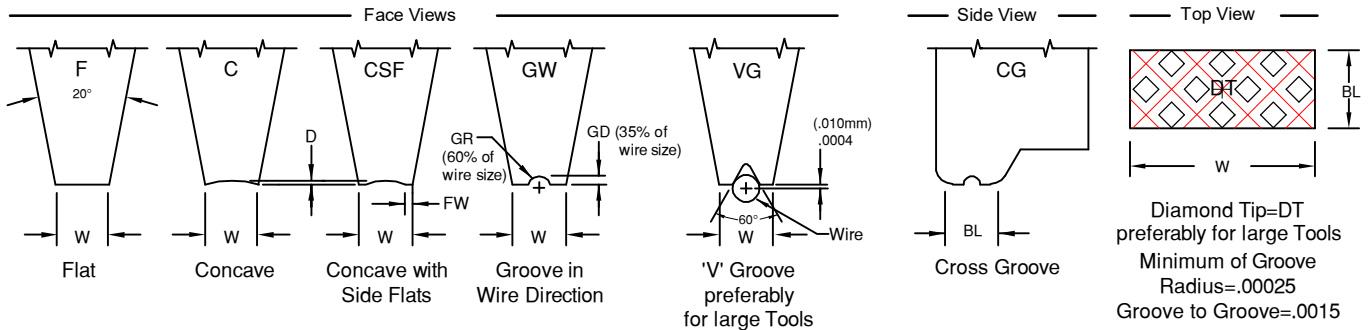
NOTE: We recommend our A8D option for enhanced wire control. Our standard vertical feed has slightly more clearance but less wire control. See in **Tool Options** for illustration. To order just add A8D in space 11. Not suitable for F&K and H&K machine



A8D Option

Hole Angle	BSV	
	in.	mm
45°	.035	.89
52°	.050	1.27

Standard: Ø1/16 45° to 52° Hole Angle :
FS=.015" (.38mm) BS"=.045" (1.14mm)
Standard: (FS&BS) supplied unless otherwise specified. See Tool Options #A3
No FS if T=MAX



Diamond Tip=DT preferably for large Tools
Minimum of Groove Radius=.00025
Groove to Groove=.0015

SERIES C & C-V

SMALL WIRE & LARGE WIRE

ORDERING INFORMATION
SMALL & LARGE WIRE BONDING WEDGES
FOR GOLD AND ALUMINUM WIRE

SAMPLE PART NUMBER: **M-C-O-X-1/8-1-45-VG-6008-M-***

SYMBOL EXPLANATION: 1 2 3 4 5 6 7 8 9 10 11

- MATERIAL:**
 - M = Ceramic
 - C = Tungsten Carbide
 - T = Titanium
 - All other: See Material Selection Guide
- SERIES: C**
- WIRE FEED:** O = Standard Feed
V = Vertical Feed
- FRONT/BACK RADIUS:** See Radius Option Chart
*For special Radius sizes insert an X Please specify FR/BR
- SHANK DIA.:** Please Specify Diameter
- TOOL LENGTH:** Please Specify Length
- HOLE ANGLE:** for C (30°, 38°, 45°, 52°, 55°, 60°) for C-V (45°, 55°, 60°)
for C-V with A8D-Opt. (45°, 52°)

- (11) See Tool Option
- (10) FOOT FINISH:
M = Matte finish (FR, BR, & Bond Flat)
P = Polish finish (FR, BR, & Bond Flat)
MP = Polish finish (FR, BR), and Matte finish (Bond Flat)
- (9) TOOL SIZE: See Standard Chart
- (8) FOOT TYPE:
F = Flat
C = Concave
CSF = Concave with Side Flats (CSF not available with ceramic tools)
CG = Cross Groove
GW = Groove in wire direction (Please specify wire size)
DT = Diamond Tip
VG = V Groove

*NOTE: Please specify for either guillotine cut or tension break.
On V-groove tools the bond length (BL) is the same as the foot length (FL).
For special sizes or dimensions insert an (X) in the appropriate position of the part number then specify what (X) equals.
Example: M-C-O-X-1/16-3/4-45-CG-2020-M (X) FR=.0012, BR=.0007
On V-groove tools the bond length is the same as the foot length.

RADIUS OPTION CHART	OPTION LETTER		A	B	C	D	E	F	G	H	I	J	K	L	M	N
	FRONT RADIUS	in.	.0005	.0005	.0010	.0010	.0010	.0015	.0015	.0015	.0015	.0020	.0020	.0020	.0020	.0020
		μ	13	13	25	25	25	38	38	38	38	51	51	51	51	51
	BACK RADIUS	in.	0	.0005	0	.0005	.0010	0	.0005	.0010	.0015	0	.0005	.0010	.0015	.0020
	μ	0	13	0	13	25	0	13	25	38	0	13	25	38	51	

For Vertical Feed: Tmax. for Dia. 1/16 = .0190 and for A8D: Tmax=.0243, Supplies only to Standard size Ø1/16, larger tool Ø are different.

STANDARD CHART		C SMALL WIRE: FOR WIRE DIAMETERS .0005" THROUGH .0020"													
TS	H	BL	C	D	T(30°38°)	T(45° 52°)	T(55° 60°)	W	SUGGESTED WD						
Units	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ						
Tolerance	±.0002 ±5	±.0002 ±5	±.0002 ±5	-.0001 -2.5	±.0005 ±13	±.0005 ±13	±.0005 ±13	±.0005 ±13	±.0005 ±13						
1505	.0015 38	.0005 13	.0020 51	.0002 5	.0150 381	.0130 330	.0100 254	.0025 64	.0005 13 through .0007 18						
1507	.0015 38	.0007 18	.0020 51	.0002 5	.0150 381	.0130 330	.0100 254	.0025 64							
1510	.0015 38	.0010 25	.0020 51	.0002 5	.0155 394	.0135 343	.0110 279	.0025 64							
1513	.0015 38	.0013 33	.0020 51	.0002 5	.0155 394	.0140 356	.0110 279	.0025 64							
1515	.0015 38	.0015 38	.0020 51	.0002 5	.0160 406	.0140 356	.0110 279	.0025 64							
1520	.0015 38	.0020 51	.0020 51	.0002 5	.0165 419	.0145 368	.0120 305	.0025 64							
Tolerance	±.0002 ±5	±.0002 ±5	±.0002 ±5	-.0001 -2.5	±.0005 ±13	±.0005 ±13	±.0005 ±13	±.0002 ±5	.0007 18 through .0010 25						
2010	.0020 51	.0010 25	.0030 76	.0002 5	.0165 419	.0145 368	.0110 279	*.0040 102							
2015	.0020 51	.0015 38	.0030 76	.0002 5	.0165 419	.0145 368	.0120 305	.0040 102							
2020	.0020 51	.0020 51	.0030 76	.0002 5	.0165 419	.0145 368	.0120 305	.0040 102							
2025	.0020 51	.0025 64	.0030 76	.0002 5	.0170 432	.0150 381	.0130 330	.0040 102							
2030	.0020 51	.0030 76	.0030 76	.0002 5	.0175 445	.0155 394	.0130 330	.0040 102							
2520	.0025 64	.0020 51	.0030 76	.0002 5	.0180 457	.0160 406	.0125 318	.0040 102	.0013 33						
2525	.0025 64	.0025 64	.0030 76	.0002 5	.0180 457	.0160 406	.0125 318	.0040 102							
2530	.0025 64	.0030 76	.0030 76	.0002 5	.0195 495	.0170 432	.0140 356	.0040 102							
2535	.0025 64	.0035 89	.0030 76	.0002 5	.0195 495	.0170 432	.0140 356	.0040 102							
2540	.0025 64	.0040 102	.0030 76	.0002 5	.0200 508	.0180 457	.0150 381	.0040 102							
3020	.0030 76	.0020 51	.0030 76	.0003 8	.0190 483	.0170 432	.0150 381	.0050 127							
3025	.0030 76	.0025 64	.0030 76	.0003 8	.0200 508	.0170 432	.0150 381	.0050 127	.0015 38						
3030	.0030 76	.0030 76	.0030 76	.0003 8	.0200 508	.0180 457	.0160 406	.0050 127							
3035	.0030 76	.0035 89	.0030 76	.0003 8	.0210 533	.0180 457	.0160 406	.0050 127							
3040	.0030 76	.0040 102	.0030 76	.0003 8	.0210 533	.0190 483	.0170 432	.0050 127							
3525	.0035 89	.0025 64	.0030 76	.0003 8	.0220 559	.0190 483	.0170 432	.0060 152							
3530	.0035 89	.0030 76	.0030 76	.0003 8	.0220 559	.0200 508	.0180 457	.0060 152							
3535	.0035 89	.0035 89	.0030 76	.0003 8	.0230 584	.0200 508	.0180 457	.0060 152	.0020 51						
3540	.0035 89	.0040 102	.0030 76	.0003 8	.0230 584	.0210 533	.0190 483	.0060 152							
3545	.0035 89	.0045 114	.0030 76	.0003 8	.0240 610	.0210 533	.0190 483	.0060 152							
3550	.0035 89	.0050 127	.0030 76	.0003 8	.0240 610	.0220 559	.0190 483	.0060 152							
STANDARD CHART		C LARGE WIRE: FOR WIRE DIAMETERS .0030" THROUGH .0160"													
TS	H	BL	C	D	T(30°38°)	T(45° 52°)	T(55° 60°)	W	SUGGESTED WD						
Units	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ	in. μ						
Tolerance	±.0005 ±13	±.0005 ±13	±.0005 ±13	-.0001 -2.5	±.0010 ±25	±.0010 ±25	±.0010 ±25	±.0010 ±25	±.0010 ±25						
4560	.0045 114	.0060 152	.0080 203	.0006 15	.0340 864	.0310 787	.0260 660	.0075 191	.0030 76						
6008	.0060 152	.0080 203	.0100 254	.0008 20	.0390 991	.0340 864	.0290 737	.0100 254	.0040 102						
7510	.0075 191	.0100 254	.0115 292	.0010 25	.0450 1143	.0410 1041	.0350 889	.0125 318	.0050 127						
0912	.0090 229	.0120 305	.0135 343	.0012 30	.0520 1321	.0490 1245	.0410 1041	.0150 381	.0060 152						
Tolerance	±.0005 ±13	±.0010 ±25	±.0005 ±13	±.0002 ±5	±.0010 ±25	±.0010 ±25	±.0010 ±25	±.0010 ±25	±.0010 ±25						
01014	.0105 267	.0140 356	.0150 381	.0014 36	.0650 1651	.0540 1372	.0450 1143	.0175 445	.0070 178						
01215	.0120 305	.0150 381	.0170 432	.0016 41	.0680 1727	.0560 1422	.0460 1168	.0200 508	.0080 203						
01518	.0150 381	.0180 457	.0200 508	.0020 51	.0720 1829	.0720 1829	.0600 1524	.0250 635	.0100 254						
01820	.0180 457	.0200 508	.0200 508	.0024 61	.0900 2286	.0800 2032	.0690 1753	.0300 762	.0120 305						
02122	.0210 533	.0220 559	.0210 533	.0028 71	.0980 2489	.0820 2083	.0700 1778	.0350 889	.0140 356						
02424	.0240 610	.0240 610	.0220 559	.0032 81	.1270 3226	.0930 2362	.0830 2108	.0400 1016	.0160 406						

*Other sizes available upon request *All dimensions and tolerances are for reference only

TOOL SIZE=TS, WIRE DIAMETER=WD "T" To be determined according to the size of FR and BR and Hole Bore Length