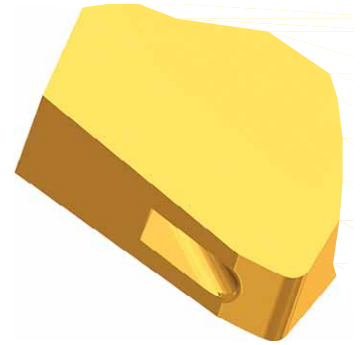
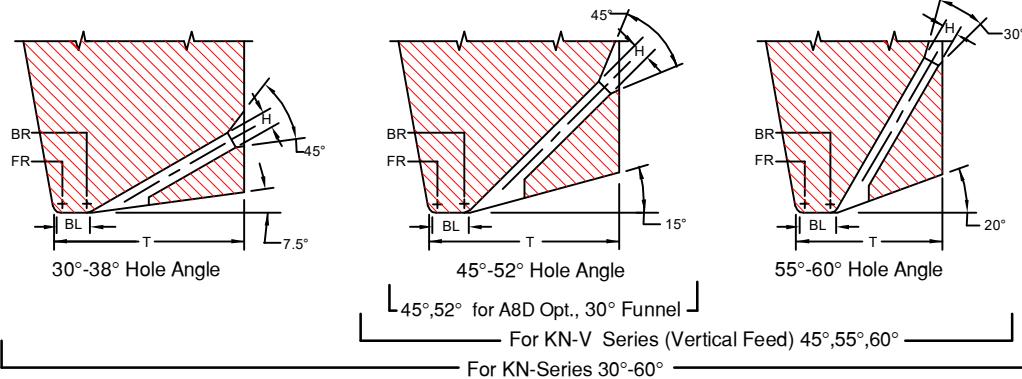


SERIES KN & KN-V

SMALL WIRE & LARGE WIRE

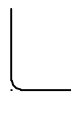
FOR AUTOMATIC BONDERS



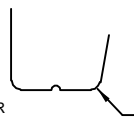
Available Vertical Hole Ø marked with X

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

FLAT



CROSS GROOVE



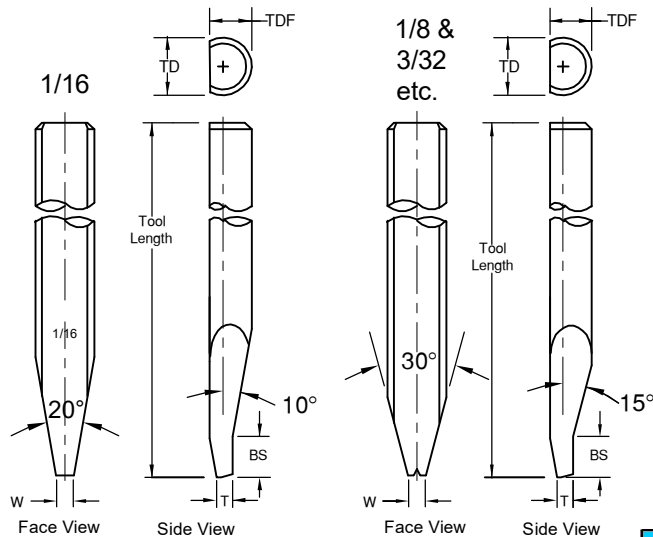
We recommend a .0005" back radius and a cross groove or a flat bond foot when ordering tools for gold wire thermosonic bonding. For more gold wire application information see Tech Tip

KN-SERIES SMALL WIRE

.0005" through .0020" wireØ

KN-SERIES LARGE WIRE

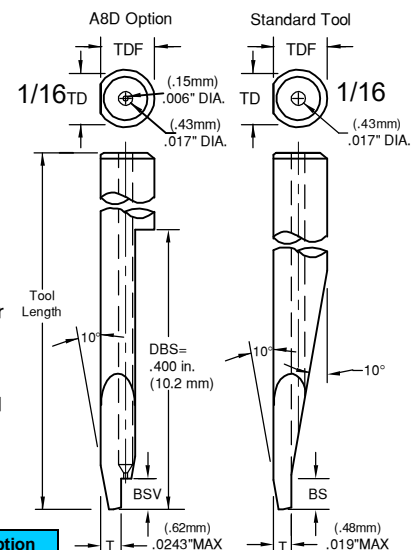
.0030" through .0160" For wire Ø



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

KN-V SERIES VERTICAL FEED DEEP ACCESS

.0005" through .0020" wireØ

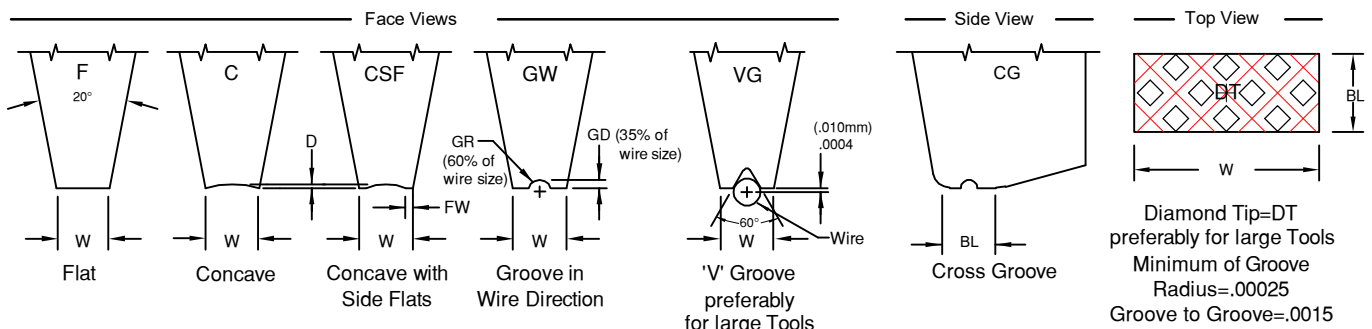


NOTE: We recommend our A8D option for enhanced wire control. Our standard vertical feed has slightly more clearance but less wire control. See in **Tool Options** for illustration. To order just add A8D in space 11. Not suitable for F&K and H&K machine

A8D Option

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

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



SERIES KN & KN-V

SMALL WIRE & LARGE WIRE

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

SAMPLE PART NUMBER: M-KN-O-X-1/16-1-45-CG-2020-M-*

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

1. **MATERIAL:** _____
M = Ceramic
C = Tungsten Carbide
T = Titanium
All other: See Material Selection Guide

2. **SERIES:** KN _____

3. **WIRE FEED:** O = Standard Feed _____
V = Vertical Feed _____

4. **FRONT/BACK RADIUS:** See Radius Option Chart _____
*For special Radius sizes insert an X Please specify FR/BR

5. **SHANK DIA.:** Please Specify Diameter _____

6. **TOOL LENGTH:** Please Specify Length _____

7. **HOLE ANGLE:** for KN (30°, 38°, 45°, 55°, 52°, 60°, °), for KN-V (45°, 55°, 60°, °)
for KN-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 (Please specify Ribbon size)
VG = V Groove (Please specify wire size)

*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-KN-O-X-1/16-3/4-45-CG-2020-M (X) FR=.0012, BR=.0007

RADIUS OPTION CHART	OPTION LETTER		A	B	C	D	E	F	G	H	I	J	K	L	M	N
	FRONT	in.	.0005	.0005	.0010	.0010	.0010	.0015	.0015	.0015	.0015	.0020	.0020	.0020	.0020	.0020
	RADIUS	μ	13	13	25	25	25	38	38	38	38	51	51	51	51	51
	BACK	in.	0	.0005	0	.0005	.0010	0	.0005	.0010	.0015	0	.0005	.0010	.0015	.0020
	RADIUS	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 KN SMALL WIRE: FOR WIRE DIAMETERS .0005" THROUGH .0020"										
TS	H	BL	D	T(30°38°)	T(45° 52°)	T(55° 60°)	W	SUGGESTED WD		
Units	in.	μ	in.	μ	in.	μ	in.	μ	in.	μ
Tolerance	±.0002	±5	±.0002	±5	±.0001	±2.5	±.0005	±13	±.0005	±13
1505	.0015	38	.0005	13	.0002	5	.0140	356	.0110	279
1507	.0015	38	.0007	18	.0002	5	.0140	356	.0110	279
1510	.0015	38	.0010	25	.0002	5	.0140	356	.0120	305
1513	.0015	38	.0013	33	.0002	5	.0140	356	.0130	330
1515	.0015	38	.0015	38	.0002	5	.0150	381	.0130	330
1520	.0015	38	.0020	51	.0002	5	.0150	381	.0130	330
Tolerance	±.0002	±5	±.0002	±5	±.0001	±2.5	±.0005	±13	±.0005	±13
2010	.0020	51	.0010	25	.0002	5	.0160	406	.0140	356
2015	.0020	51	.0015	38	.0002	5	.0160	406	.0140	356
2020	.0020	51	.0020	51	.0002	5	.0170	432	.0150	381
2025	.0020	51	.0025	64	.0002	5	.0170	432	.0150	381
2030	.0020	51	.0030	76	.0002	5	.0170	432	.0150	381
2520	.0025	64	.0020	51	.0002	5	.0170	432	.0150	381
2525	.0025	64	.0025	64	.0002	5	.0170	432	.0160	406
2530	.0025	64	.0030	76	.0002	5	.0180	457	.0170	432
2535	.0025	64	.0035	89	.0002	5	.0180	457	.0170	432
2540	.0025	64	.0040	102	.0002	5	.0180	457	.0170	432
3020	.0030	76	.0020	51	.0003	8	.0190	483	.0170	432
3025	.0030	76	.0025	64	.0003	8	.0200	508	.0170	432
3030	.0030	76	.0030	76	.0003	8	.0200	508	.0180	457
3035	.0030	76	.0035	89	.0003	8	.0210	533	.0180	457
3040	.0030	76	.0040	102	.0003	8	.0210	533	.0190	483
3525	.0035	89	.0025	64	.0003	8	.0220	559	.0190	483
3530	.0035	89	.0030	76	.0003	8	.0220	559	.0200	508
3535	.0035	89	.0035	89	.0003	8	.0230	584	.0200	508
3540	.0035	89	.0040	102	.0003	8	.0230	584	.0210	533
3545	.0035	89	.0045	114	.0003	8	.0240	610	.0210	533
3550	.0035	89	.0050	127	.0003	8	.0240	610	.0220	559
STANDARD CHART KN LARGE WIRE: FOR WIRE DIAMETERS .0030" THROUGH .0160"										
TS	H	BL	D	T(30°38°)	T(45° 52°)	T(55° 60°)	W	SUGGESTED WD		
Units	in.	μ	in.	μ	in.	μ	in.	μ	in.	μ
Tolerance	±.0005	±13	±.0005	±13	±.0001	±2.5	±.0010	±25	±.0010	±25
4560	.0045	114	.0060	152	.0006	15	.0340	864	.0310	787
6008	.0060	152	.0080	203	.0008	20	.0390	991	.0340	864
7510	.0075	191	.0100	254	.0010	25	.0450	1143	.0410	1041
0912	.0090	229	.0120	305	.0012	30	.0520	1321	.0490	1245
Tolerance	±.0005	±13	±.0010	±25	±.0002	±5	±.0010	±25	±.0010	±25
01014	.0105	267	.0140	356	.0014	36	.0650	1651	.0540	1372
01215	.0120	305	.0150	381	.0016	41	.0680	1727	.0560	1422
01518	.0150	381	.0180	457	.0020	51	.0720	1829	.0640	1626
01820	.0180	457	.0200	508	.0024	61	.0900	2286	.0800	2032
02122	.0210	533	.0220	559	.0028	71	.0980	2489	.0820	2083
02424	.0240	610	.0240	610	.0032	81	.1100	2794	.0930	2362

*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

DeWeyl Tool Company, 959 Transport Way Petaluma, Ca. 94954 USA Phone 800-821-8665 707-765-5779