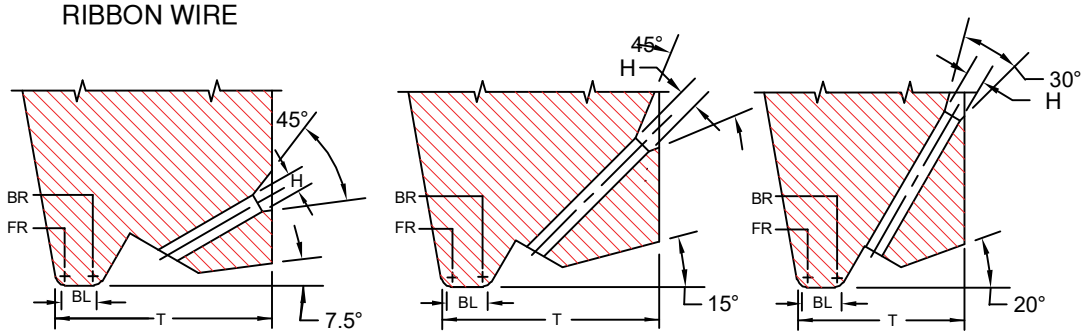
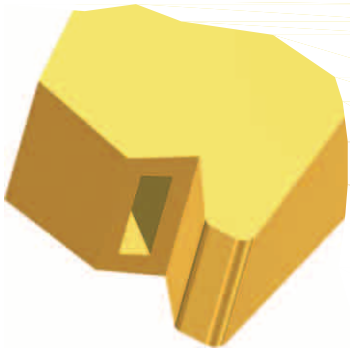
SERIES RKS & RKS-V

RIBBON WIRE

FOR MANUAL AND SEMI-AUTOMATIC BONDERS



30°-38° Hole Angle | 45°-52° Hole Angle | 55°-60° Hole Angle



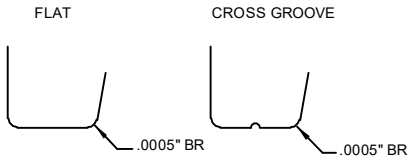
45°,52° for A8D Opt., 30° Funnel

For RKS-V Series (Vertical Feed) 45°,55°,60°

For RKS-Series 30°-60°

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	

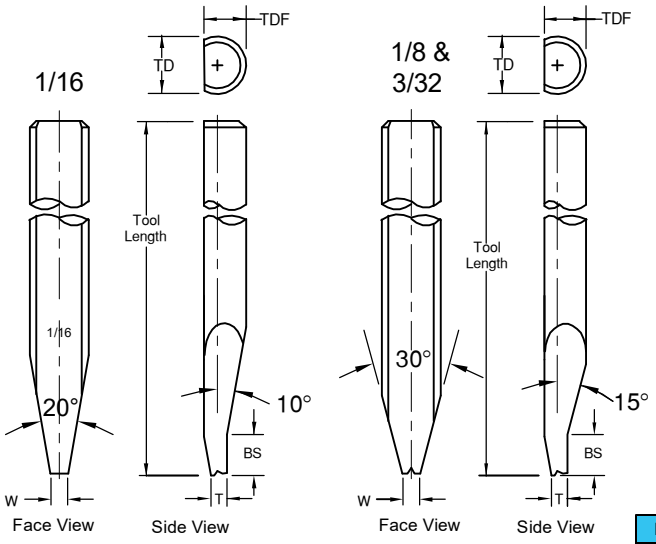


We recommend a .0005" back radius and a cross groove or a flat bond foot when ordering tools for gold wire thermosonic bonding. For more gold wire application information see **Tech Tip**

RKS-SERIES

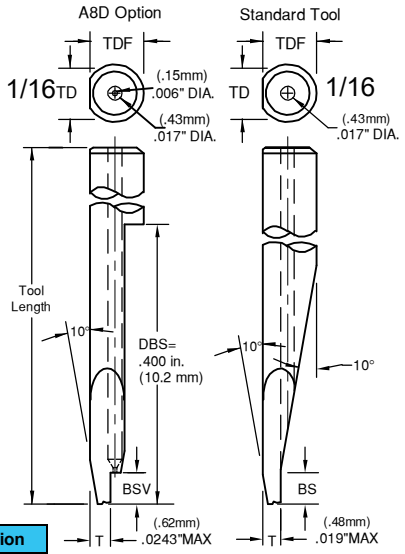
Ribbon Width: .0020" through .030"
Ribbon Thickness: .00025" through .0020"

For large 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

RKS-V SERIES
VERTICAL FEED DEEP ACCESS



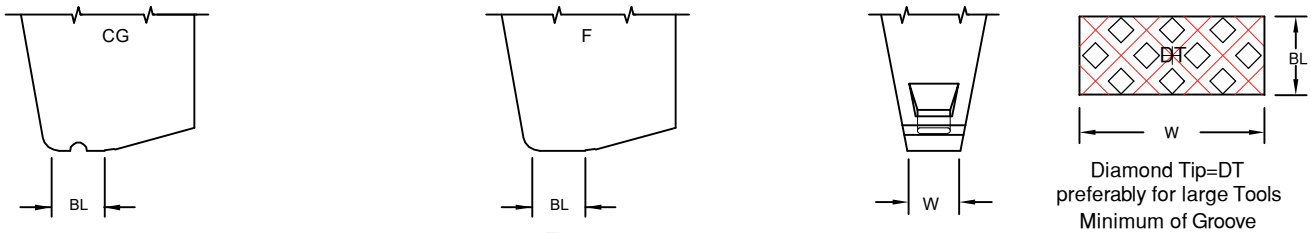
NOTE: We recommend our A8D option for enhanced wire control. Our standard vertical feed has slightly more clearance but less wire control. See Tool Option for illustration. To order just add A8D in space 12.

A8D Option

Hole Angles Available with 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

Side View | Back View | Top View



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

SERIES RKS & RKS-V

RIBBON WIRE

ORDERING INFORMATION
RIBBON BONDING WEDGES
FOR GOLD AND ALUMINUM WIRE

SAMPLE PART NUMBER: M-RKS-O-D-1/16-1-45-CG-.5x5-2-M- *

SYMBOL EXPLANATION: 1 2 3 4 5 6 7 8 9 10 11 12

1. **MATERIAL:**
   M = Ceramic
   C = Tungsten Carbide
   T = Titanium
   All other: See Material Selection
2. **SERIES:** RKS
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 RKS (30°, 38°, 45°,52°,55°,60,°) for RKS-V (45°,55°,60,°) for RKS-V with A8D Opt.(45°,52°)

(8) FOOT TYPE: **F** = Flat
CG = Cross Groove
DT = Diamond Tip
(Please specify Ribbon size)

(9) RIBBON SIZE: See Standard Chart
Example: .0005 x .005 = .5 x 5
Thickness x Width

(10) Bond Length: See Standard Chart
Example: BL of .0020 = 2
Note: We do not recommend bond lengths any larger than .005".

(11) 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)

(12) See Tool Option

For special sizes or dimensions insert an (X) in the appropriate position of the part number then specify what (X) equals. Example: M-RKS-O-X-1/16-3/4-45-CG-.5x5-2-M-A7 (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 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.

Size Restrictions for Vertical Feed Tools		
STANDARD		
TD	Maximum Ribbon Width	Maximum "T" Dimension
1/16	.0150	.0190
3/32	.0300	.0210
A8D Option, RW up to .0070		
TD	Maximum Ribbon Width	Maximum "T" Dimension
1/16	.0070	.0243
A8D Option, RW .0080 and larger		
TD	Maximum Ribbon Width	Maximum "T" Dimension
1/16	.0120	.0190
Larger Tool Ø, Ribbon Width and "T" Dimensions available upon request		
RW = Ribbon Width		

STANDARD CHART RKS — **FOR RIBBON THICKNESS: .00025" THROUGH .0020"** — **WIDTHS: .002" THROUGH .030"**

RIBBON WIDTH		RIBBON THICKNESS		BL		T(30°38°)		T(45° 52°)		T(55° 60°)		W	
in.	µ	in.	µ	in.	µ	in.	µ	in.	µ	in.	µ	in.	µ
Tolerance				±.0002	±5	±.0005	±13	±.0005	±13	±.0005	±13	±.0002	±5
.0020	51	.00025 through .00125	6.4 through 32	.0010	25	.0130	330	.0110	279	.0090	229	.0055	140
				.0015	38	.0130	330	.0110	279	.0090	229		
				.0020	51	.0140	356	.0120	305	.0100	254		
				.0025	64	.0140	356	.0120	305	.0100	254		
				.0030	76	.0150	381	.0130	330	.0105	267		
.0030	76	.00025 through .00125	6.4 through 32	.0010	25	.0150	381	.0130	330	.0110	279	.0065	165
				.0015	38	.0160	406	.0140	356	.0110	279		
				.0020	51	.0160	406	.0140	356	.0120	305		
				.0025	64	.0170	432	.0150	381	.0120	305		
				.0030	76	.0170	432	.0155	394	.0125	318		
.0040	102	.00025 through .00125	6.4 through 32	.0020	51	.0160	406	.0140	356	.0120	305	.0075	191
				.0025	64	.0170	432	.0150	381	.0120	305		
				.0030	76	.0170	432	.0155	394	.0125	318		
.0050	127	.0005 through .0020	13 through 51	.0020	51	.0160	406	.0140	356	.0120	305	.0085	216
				.0025	64	.0170	432	.0150	381	.0120	305		
				.0030	76	.0170	432	.0155	394	.0125	318		
				.0035	89	.0180	457	.0155	394	.0130	330		
.0070	178	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0150	381	.0120	305	.0125	318
				.0030	76	.0170	432	.0155	394	.0125	318		
				.0035	89	.0180	457	.0155	394	.0130	330		
				.0040	102	.0180	457	.0160	406	.0130	330		
.0100	254	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0150	381	.0120	305	.0155	394
				.0030	76	.0170	432	.0155	394	.0125	318		
				.0035	89	.0180	457	.0155	394	.0130	330		
				.0040	102	.0180	457	.0160	406	.0130	330		
.0120	305	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0150	381	.0120	305	.0175	445
				.0030	76	.0170	432	.0155	394	.0125	318		
				.0035	89	.0180	457	.0155	394	.0130	330		
				.0040	102	.0180	457	.0160	406	.0130	330		
.0150	381	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0150	381	.0120	305	.0205	521
				.0030	76	.0170	432	.0155	394	.0125	318		
				.0035	89	.0180	457	.0155	394	.0130	330		
				.0040	102	.0180	457	.0160	406	.0130	330		
.0200	508	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0150	381	.0120	305	.0255	648
				.0030	76	.0170	432	.0155	394	.0125	318		
				.0035	89	.0180	457	.0155	394	.0130	330		
				.0040	102	.0180	457	.0160	406	.0130	330		

*Other sizes available upon request *All dimensions and tolerances are for reference only
"T" To be determined according to the size of FR and BR and Hole Bore Length

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