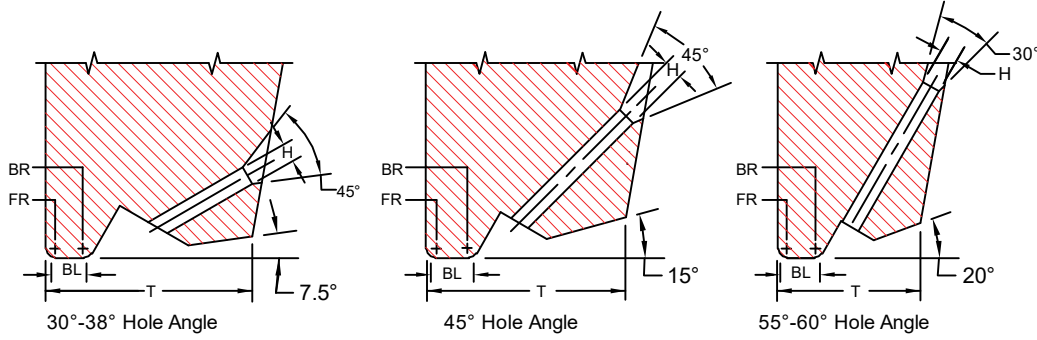


SERIES R & R-V

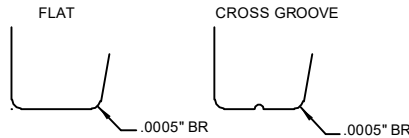
RIBBON WIRE

FOR MANUAL AND SEMI-AUTOMATIC BONDERS



FOR R-SERIES

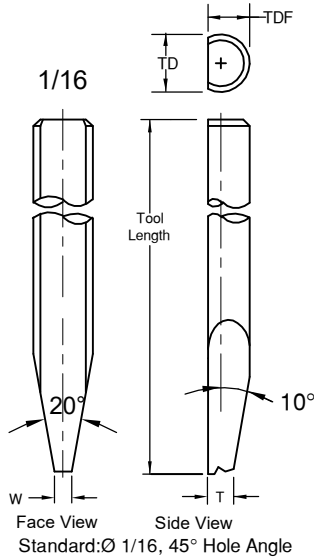
	TD		TDF	
	in.	mm	in.	mm
1/16	.0624	1.59	.0460	1.17
	.0784	1.99	.0630	1.60
3/32	.0937	2.38	.0880	2.24
	.1180	3.00	.0985	2.50
1/8	.1249	3.17	.0937	2.38
1/8	.1249	3.17	.1180	3.00



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

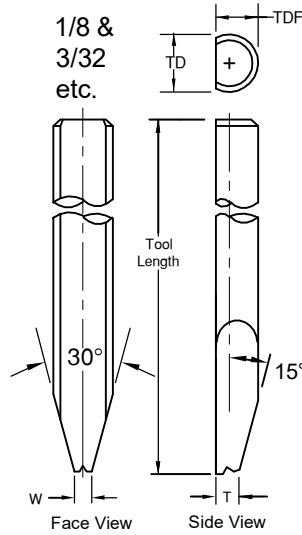
R-SERIES

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



R-SERIES

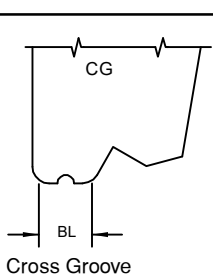
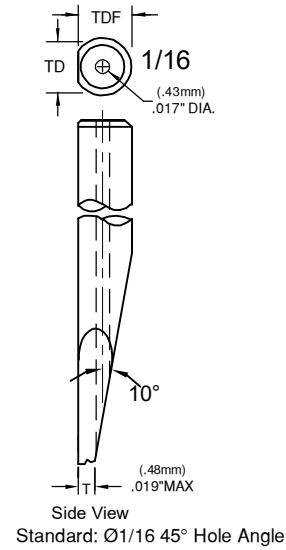
Large Ø



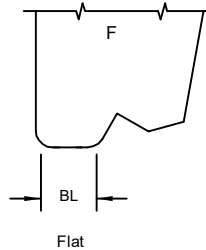
R-V SERIES

VERTICAL FEED DEEP ACCESS

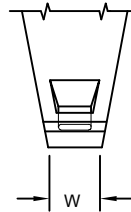
Ribbon Width: .0020" through .030"
Ribbon Thickness: .00025" through .0020"



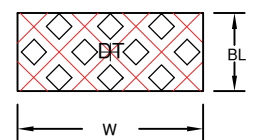
Side View



Back View



Top View



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

SERIES R& R-V

RIBBON WIRE

ORDERING INFORMATION
RIBBON WIRE BONDING WEDGES
FOR GOLD AND ALUMINUM WIRE

SAMPLE PART NUMBER: M-R-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 Guide
 2. **SERIES:** R _____
 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:** 30°, 38°, 45°, 52° 55°, 60° _____
- (11) See Tool Option
 (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)
 (10) **Bond Length:** See Standard Chart
 Example: BL of .0020 = 2
Note: We do not recommend bond lengths any larger than .005".
 (9) **RIBBON SIZE:** See Standard Chart
 Example: .0005 x .005 = .5 x 5
 Thickness x Width
 (8) **FOOT TYPE:** **F** = Flat
CG = Cross Groove
DT = Diamond Tip
 (Please specify Ribbon size)

For special sizes or dimensions insert an (X) in the appropriate position of the part number then specify what (X) equals. Example: M-R-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
	BACK RADIUS	μ	13	13	25	25	25	38	38	38	38	51	51	51	51	51
	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	

STANDARD CHART		R RIBBON WIRE:		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		
Tolerance		±.0002 ±5		±.0005 ±13		±.0005 ±13		±.0005 ±13		±.0002 ±5			
.0020	51	.00025 through .00125	6.4	6.4	13	.0010	25	.0110	279	.0080	203	.0055	140
				13	25	.0130	330	.0110	279				
				32	32	.0130	330	.0120	305	.0090	229		
				32	32	.0140	356	.0120	305	.0100	254		
.0030	76	.00025 through .00125	6.4	6.4	13	.0160	406	.0130	330	.0090	229	.0065	165
				13	25	.0160	406	.0130	330	.0100	254		
				32	32	.0160	406	.0140	356	.0100	254		
				32	32	.0170	432	.0140	356	.0110	279		
.0040	102	.00025 through .00125	6.4	6.4	13	.0160	406	.0140	356	.0100	254	.0075	191
				13	25	.0170	432	.0140	356	.0110	279		
				32	32	.0170	432	.0140	356	.0110	279		
				32	32	.0170	432	.0140	356	.0110	279		
.0050	127	.0005 through .0020	13	13	25	.0160	406	.0140	356	.0100	254	.0085	216
				25	32	.0170	432	.0140	356	.0110	279		
				51	51	.0170	432	.0140	356	.0110	279		
				51	51	.0180	457	.0150	381	.0120	305		
.0070	178	.0005 through .0020	13	13	25	.0170	432	.0140	356	.0110	279	.0125	318
				25	32	.0170	432	.0140	356	.0110	279		
				51	51	.0180	457	.0150	381	.0120	305		
				51	51	.0180	457	.0150	381	.0120	305		
.0100	254	.0005 through .0020	13	13	25	.0170	432	.0140	356	.0110	279	.0155	394
				25	32	.0170	432	.0140	356	.0110	279		
				51	51	.0180	457	.0150	381	.0120	305		
				51	51	.0180	457	.0150	381	.0120	305		
.0120	305	.0005 through .0020	13	13	25	.0170	432	.0140	356	.0110	279	.0175	445
				25	32	.0170	432	.0140	356	.0110	279		
				51	51	.0180	457	.0150	381	.0120	305		
				51	51	.0180	457	.0150	381	.0120	305		
.0150	381	.0005 through .0020	13	13	25	.0170	432	.0140	356	.0110	279	.0205	521
				25	32	.0170	432	.0140	356	.0110	279		
				51	51	.0180	457	.0150	381	.0120	305		
				51	51	.0180	457	.0150	381	.0120	305		
.0200	508	.0005 through .0020	13	13	25	.0170	432	.0140	356	.0110	279	.0255	648
				25	32	.0170	432	.0140	356	.0110	279		
				51	51	.0180	457	.0150	381	.0120	305		
				51	51	.0180	457	.0150	381	.0120	305		

*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