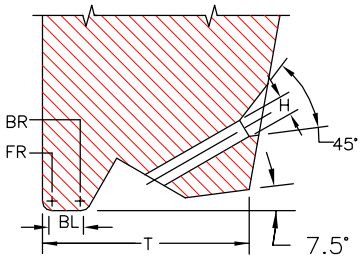
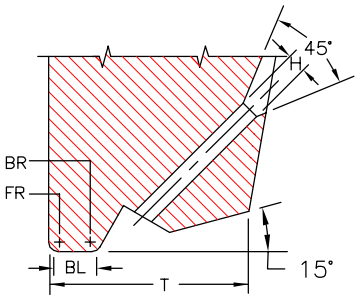
SERIES R
RIBBON WIRE

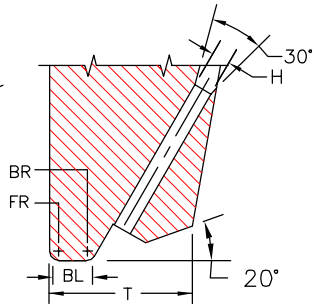
FOR MANUAL AND SEMI-AUTOMATIC BONDERS



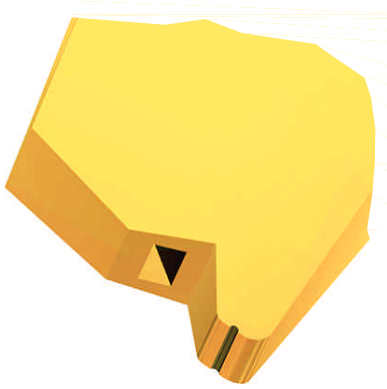
30°-38° Hole Angle



45° Hole Angle

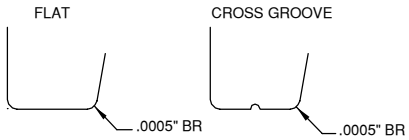


55°-60° Hole Angle



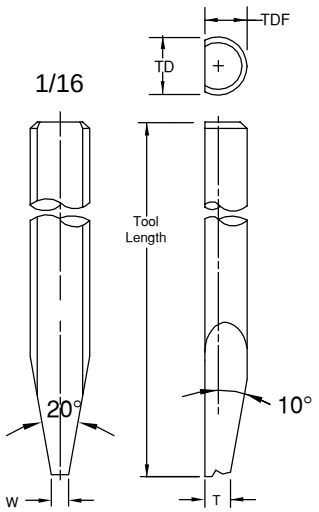
FOR R-SERIES

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



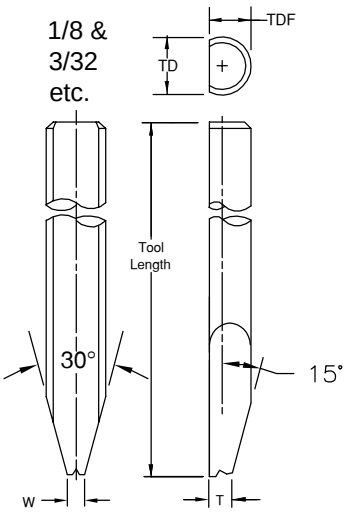
We recommend a .0005" back radius and a cross groove or a flat bond foot when ordering tools for gold wire thermosonic bonding. For more gold wire application information see Tech Tip

R-SERIES
Ribbon Width: .0020" through .030"
Ribbon Thickness: .00025" through .0020"

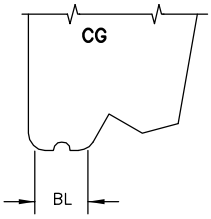


Standard:Ø 1/16, 45° Hole Angle

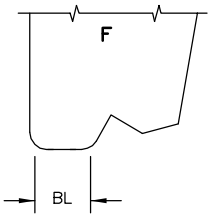
R-SERIES
Large Ø



Side View

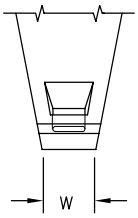


Cross Groove

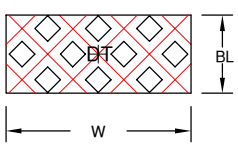


Flat

Back View



Top View



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

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

SERIES R
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: Material Selection Guide see Tech Tips
2. **SERIES:** R
3. **WIRE FEED:** **O** = Standard 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°**

(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)

(11) 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-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
		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

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

RIBBON WIDTH		RIBBON THICKNESS		BL		T(30°38°)		T(45°)		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	.0120	305	.0110	279	.0080	203	.0055	140
				.0015	38	.0130	330	.0110	279	.0090	229		
				.0020	51	.0130	330	.0120	305	.0090	229		
				.0025	64	.0140	356	.0120	305	.0100	254		
				.0030	76	.0140	356	.0130	330	.0100	254		
.0030	76	.00025 through .00125	6.4 through 32	.0010	25	.0160	406	.0130	330	.0090	229	.0065	165
				.0015	38	.0160	406	.0130	330	.0100	254		
				.0020	51	.0160	406	.0140	356	.0100	254		
				.0025	64	.0170	432	.0140	356	.0110	279		
				.0030	76	.0170	432	.0140	356	.0110	279		
.0040	102	.00025 through .00125	6.4 through 32	.0020	51	.0160	406	.0140	356	.0100	254	.0075	191
				.0025	64	.0170	432	.0140	356	.0110	279		
				.0030	76	.0170	432	.0140	356	.0110	279		
.0050	127	.0005 through .0020	13 through 51	.0020	51	.0160	406	.0140	356	.0100	254	.0085	216
				.0025	64	.0170	432	.0140	356	.0110	279		
				.0030	76	.0170	432	.0140	356	.0110	279		
				.0035	89	.0180	457	.0150	381	.0120	305		
.0070	178	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0140	356	.0110	279	.0125	318
				.0030	76	.0170	432	.0140	356	.0110	279		
				.0035	89	.0180	457	.0150	381	.0120	305		
				.0040	102	.0180	457	.0150	381	.0120	305		
.0100	254	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0140	356	.0110	279	.0155	394
				.0030	76	.0170	432	.0140	356	.0110	279		
				.0035	89	.0180	457	.0150	381	.0120	305		
				.0040	102	.0180	457	.0150	381	.0120	305		
.0120	305	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0140	356	.0110	279	.0175	445
				.0030	76	.0170	432	.0140	356	.0110	279		
				.0035	89	.0180	457	.0150	381	.0120	305		
				.0040	102	.0180	457	.0150	381	.0120	305		
.0150	381	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0140	356	.0110	279	.0205	521
				.0030	76	.0170	432	.0140	356	.0110	279		
				.0035	89	.0180	457	.0150	381	.0120	305		
				.0040	102	.0180	457	.0150	381	.0120	305		
.0200	508	.0005 through .0020	13 through 51	.0025	64	.0170	432	.0140	356	.0110	279	.0255	648
				.0030	76	.0170	432	.0140	356	.0110	279		
				.0035	89	.0180	457	.0150	381	.0120	305		
				.0040	102	.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

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