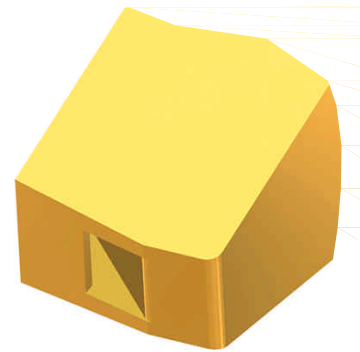
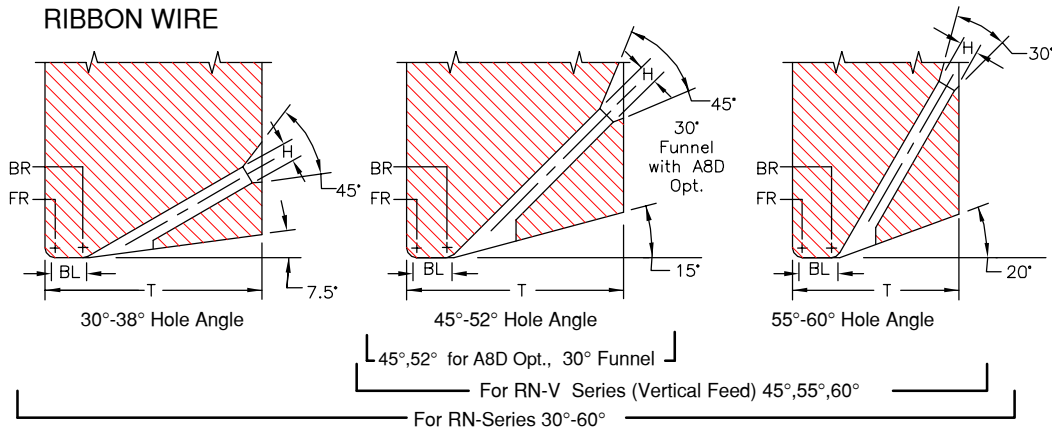


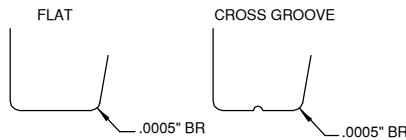
# SERIES RN & RN-V

RIBBON WIRE

FOR AUTOMATIC BONDERS



	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**

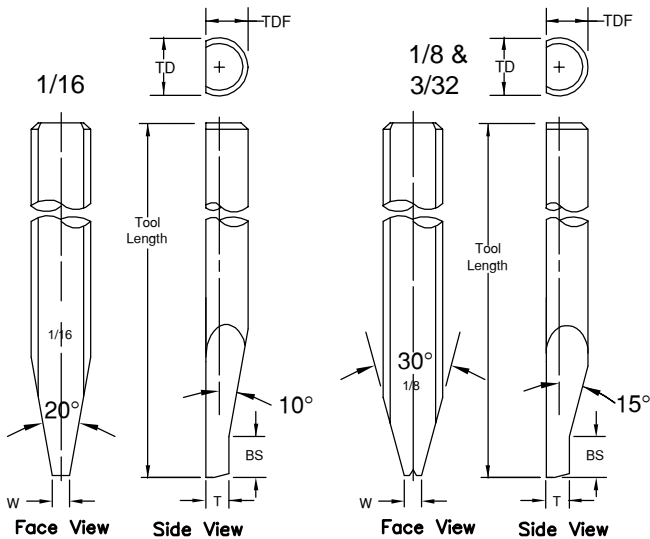
Available Vertical Hole Ø marked with X

## RN-SERIES

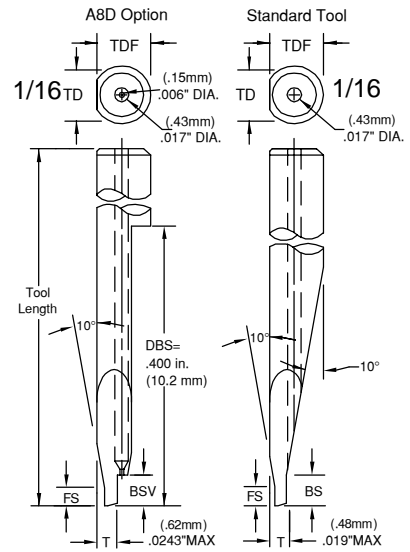
Ribbon Width: .0020" through .030"  
Ribbon Thickness: .00025" through .0020"

For large Ø

## RN-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.

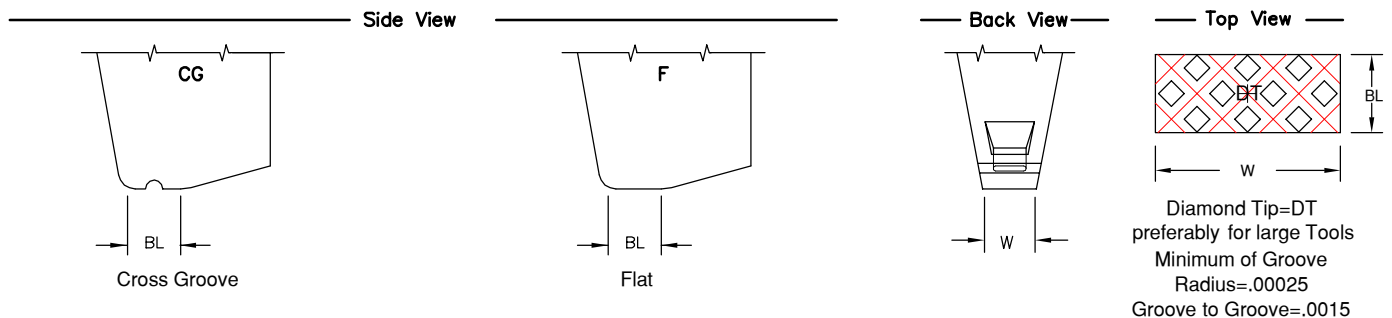


### A8D Option

Hole 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  
**No FS if T=MAX**

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



# SERIES RN & RN-V

## RIBBON WIRE

ORDERING INFORMATION  
RIBBON BONDING WEDGES  
FOR GOLD AND ALUMINUM WIRE

SAMPLE PART NUMBER: M- RN-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 Page 5
  2. SERIES: RN \_\_\_\_\_
  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 RN (30°, 38°, 45°, 52°, 55°, 60°, °) for RN-V (45°, 55°, 60°, °)  
 for RN-V with A8D Opt.(45°, 52°) \_\_\_\_\_
- (12) 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-RN-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		
TD	Maximum Ribbon Width	Maximum "T" Dimension
1/16	.0120	.0243
3/32	.0250	.0260
Larger Ribbon Width and "T" Dimensions available upon request		

STANDARD CHART		RN		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				
<b>Tolerance</b>		±.0002	±.0005	±.0005	±.0005	±.0005	±.0005	±.0002	±.0002				
.0020	51	.00025 through .00125	6.4	.0010	25	.0140	356	.0110	279	.0090	229	.0055	140
				.0015	38	.0140	356	.0110	279	.0090	229		
				.0020	51	.0150	381	.0120	305	.0090	229		
				.0025	64	.0150	381	.0120	305	.0100	254		
.0030	76	.00025 through .00125	6.4	.0010	25	.0150	381	.0130	330	.0100	254	.0065	165
				.0015	38	.0150	381	.0140	356	.0100	254		
				.0020	51	.0160	406	.0140	356	.0110	279		
				.0025	64	.0160	406	.0140	356	.0110	279		
.0040	102	.00025 through .00125	6.4	.0010	25	.0160	406	.0140	356	.0110	279	.0075	191
				.0015	38	.0160	406	.0140	356	.0110	279		
				.0020	51	.0160	406	.0140	356	.0110	279		
				.0025	64	.0160	406	.0140	356	.0110	279		
.0050	127	.0005 through .0020	13	.0020	51	.0160	406	.0140	356	.0110	279	.0085	216
				.0025	64	.0160	406	.0140	356	.0110	279		
				.0030	76	.0160	406	.0150	381	.0120	305		
				.0035	89	.0170	432	.0150	381	.0120	305		
.0070	178	.0005 through .0020	13	.0025	64	.0160	406	.0140	356	.0110	279	.0125	318
				.0030	76	.0160	406	.0150	381	.0120	305		
				.0035	89	.0170	432	.0150	381	.0120	305		
				.0040	102	.0170	432	.0160	406	.0130	330		
.0100	254	.0005 through .0020	13	.0025	64	.0160	406	.0140	356	.0110	279	.0155	394
				.0030	76	.0160	406	.0150	381	.0120	305		
				.0035	89	.0170	432	.0150	381	.0120	305		
				.0040	102	.0170	432	.0160	406	.0130	330		
.0120	305	.0005 through .0020	13	.0025	64	.0160	406	.0140	356	.0110	279	.0175	445
				.0030	76	.0160	406	.0150	381	.0120	305		
				.0035	89	.0170	432	.0150	381	.0120	305		
				.0040	102	.0170	432	.0160	406	.0130	330		
.0150	381	.0005 through .0020	13	.0025	64	.0160	406	.0140	356	.0110	279	.0205	521
				.0030	76	.0160	406	.0150	381	.0120	305		
				.0035	89	.0170	432	.0150	381	.0120	305		
				.0040	102	.0170	432	.0160	406	.0130	330		
.0200	508	.0005 through .0020	13	.0025	64	.0160	406	.0140	356	.0110	279	.0255	648
				.0030	76	.0160	406	.0150	381	.0120	305		
				.0035	89	.0170	432	.0150	381	.0120	305		
				.0040	102	.0170	432	.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