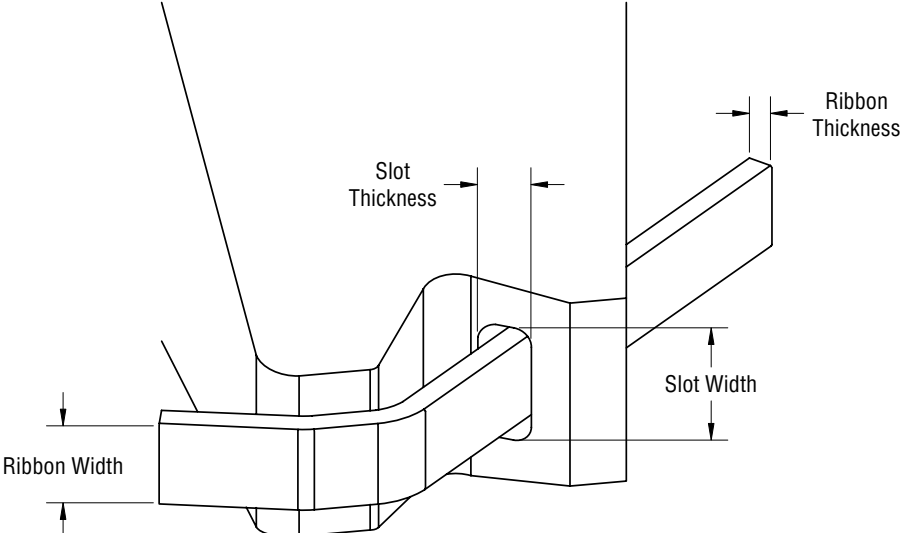
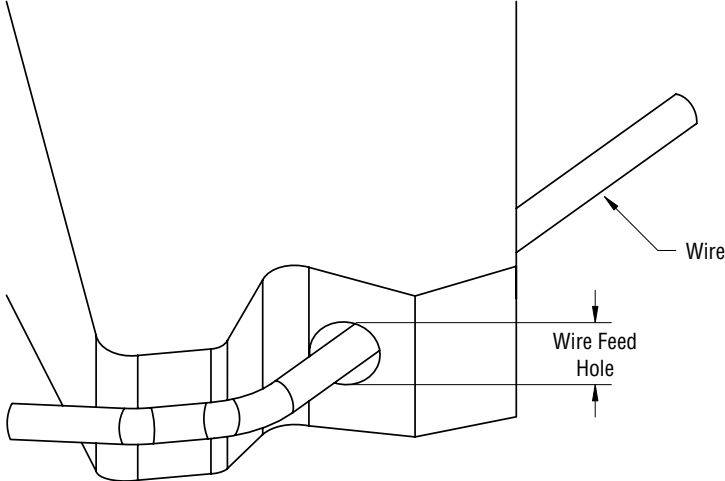
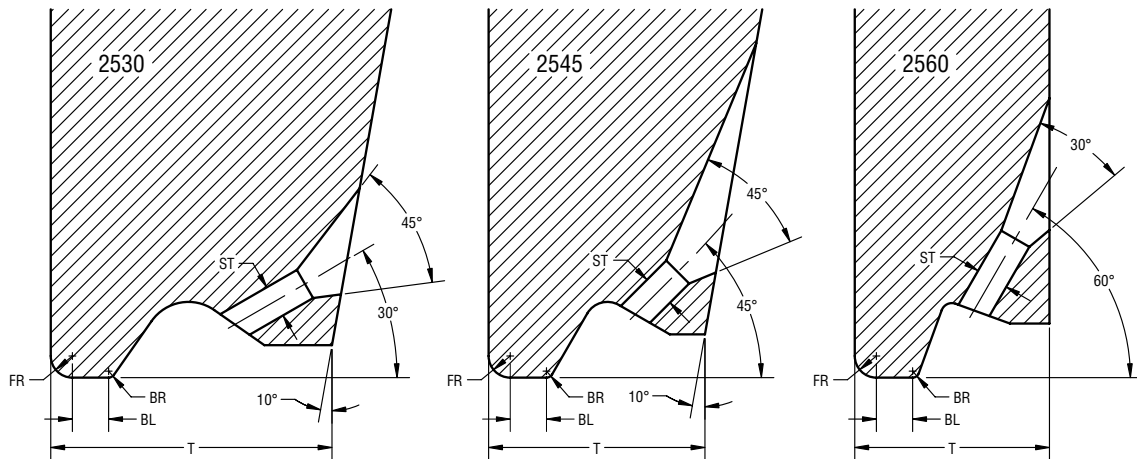


Ribbon Bonding Wedge



Wire Bonding Wedge

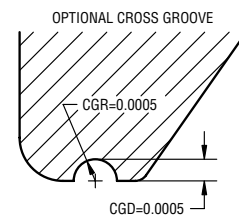




Simply specify the ribbon thickness, width, and bond length and Gaiser calculates the ribbon feed slot dimensions for optimum performance.

Deep access vertical feed ribbon tools are also available - see series 4645R and 4660R.

Material:
Tungsten Carbide Standard
Titanium Carbide Optional (Specify "-TiC" in part no.)
Cermet Tip Optional (Specify "-BKCR" in part no.)



Specify: Series/Ribbon Feed Angle - Ribbon Thickness - Ribbon Width - Bond Length - Tool Length - Options

Example:

2530-.5-4-2.0-L

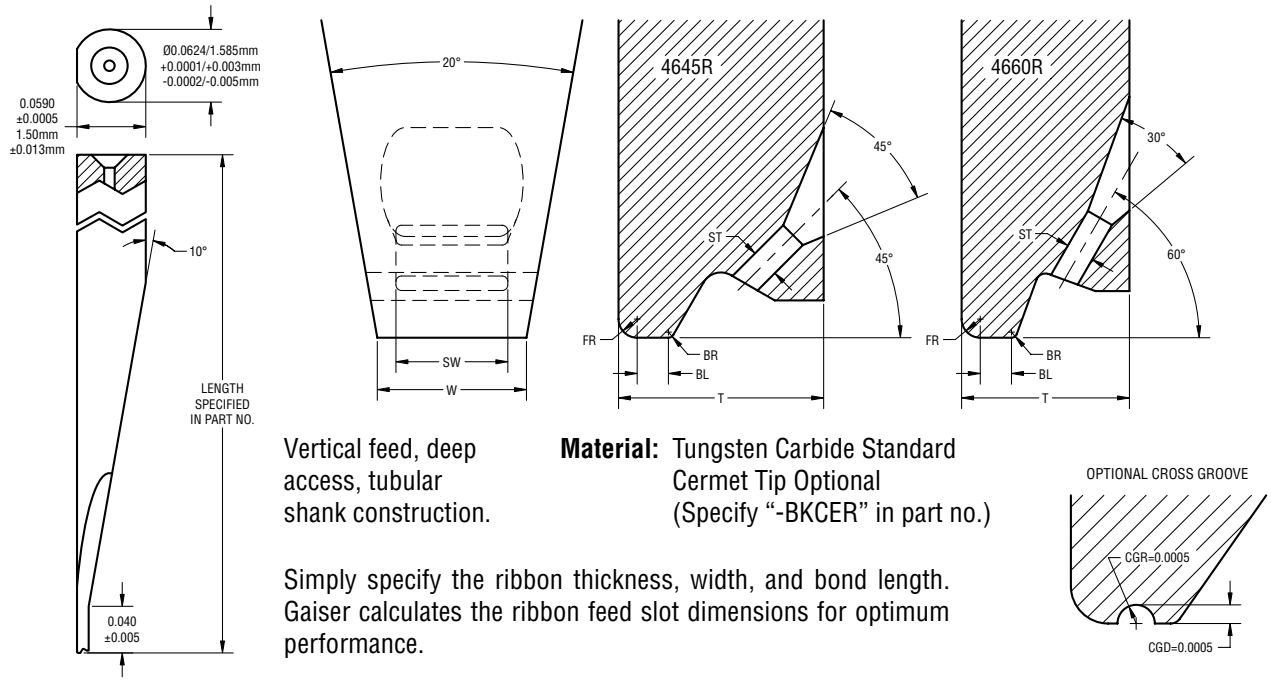
(RT="0.5"=0.0005 in., RW="4"=0.0040 in., BL or BF="2.0"=0.0020 in.)

2545-1-5-3.0-3/4-CG-TiC

(RT="1"=0.0010 in., RW="5"=0.0050 in., BL or BF="3.0"=0.0030 in.)

BL (BF) in. / μ m $\pm 0.0002 / 5$	FR in. / μ m $\pm 0.0002 / 5$	BR in. / μ m $+0.0002 / 5$ $-0.0001 / 2.5$	SW in. / μ m $\pm 0.0005 / 13$	W in. / μ m $\pm 0.0003 / 8$	T 30° in. / μ m $\pm 0.0005 / 13$	T 45° in. / μ m $\pm 0.0005 / 13$	T 60° in. / μ m $\pm 0.0005 / 13$	RIBBON THICKNESS in. / μ m	RIBBON WIDTH in. / μ m
0.0005 / 13	0.0010 / 25	0.0003 / 8	0.0035 / 89	0.005 / 127	0.012 / 305	0.008 / 203	0.008 / 203	0.00025 / 6 to 0.0005 / 13	0.002 / 51
0.0010 / 25	0.0010 / 25	0.0003 / 8	0.0035 / 89	0.005 / 127	0.012 / 305	0.009 / 229	0.008 / 203		
0.0015 / 38	0.0010 / 25	0.0003 / 8	0.0035 / 89	0.005 / 127	0.013 / 330	0.009 / 229	0.008 / 203		
0.0020 / 51	0.0010 / 25	0.0003 / 8	0.0035 / 89	0.005 / 127	0.013 / 330	0.010 / 254	0.009 / 229	0.0005 / 13 to 0.001 / 25	0.003 / 76
0.0020 / 51	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.013 / 330	0.010 / 254	0.009 / 229		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.014 / 356	0.010 / 254	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.014 / 356	0.011 / 279	0.010 / 254	0.0005 / 13 to 0.002 / 51	0.004 / 102
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.015 / 381	0.012 / 305	0.011 / 279		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0060 / 152	0.008 / 203	0.014 / 356	0.010 / 254	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0060 / 152	0.008 / 203	0.014 / 356	0.011 / 279	0.010 / 254	0.0005 / 13 to 0.002 / 51	0.005 / 127
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0060 / 152	0.008 / 203	0.015 / 381	0.012 / 305	0.011 / 279		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0070 / 178	0.009 / 229	0.014 / 356	0.010 / 254	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0070 / 178	0.009 / 229	0.014 / 356	0.011 / 279	0.010 / 254	0.0005 / 13 to 0.002 / 51	0.008 / 203
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0070 / 178	0.009 / 229	0.015 / 381	0.012 / 305	0.011 / 279		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0110 / 279	0.013 / 330	0.014 / 356	0.011 / 279	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0110 / 279	0.013 / 330	0.015 / 381	0.012 / 305	0.011 / 279	0.0005 / 13 to 0.002 / 51	0.010 / 254
0.0050 / 127	0.0010 / 25	0.0003 / 8	0.0110 / 279	0.013 / 330	0.016 / 406	0.013 / 330	0.012 / 305		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.014 / 356	0.011 / 279	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.015 / 381	0.012 / 305	0.011 / 279	0.0005 / 13 to 0.002 / 51	0.010 / 254
0.0050 / 127	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.016 / 406	0.013 / 330	0.012 / 305		

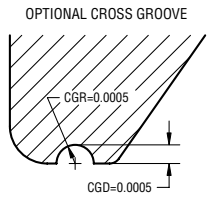
Chart contains typical configurations. T dimension varies with ribbon size - consult factory for exact T dimension.
Other configurations available based on ribbon size. Standard 1/16 inch diameter shank.
Dimensions in inches unless otherwise specified.



Vertical feed, deep access, tubular shank construction.

Material: Tungsten Carbide Standard
Cermet Tip Optional
(Specify “-BKCR” in part no.)

Simply specify the ribbon thickness, width, and bond length. Gaiser calculates the ribbon feed slot dimensions for optimum performance.



Specify: Series/Ribbon Feed Angle - Ribbon Thickness - Ribbon Width - Bond Length - Tool Length - Options

Example:

4645R-.5-4-2.0-L-CG

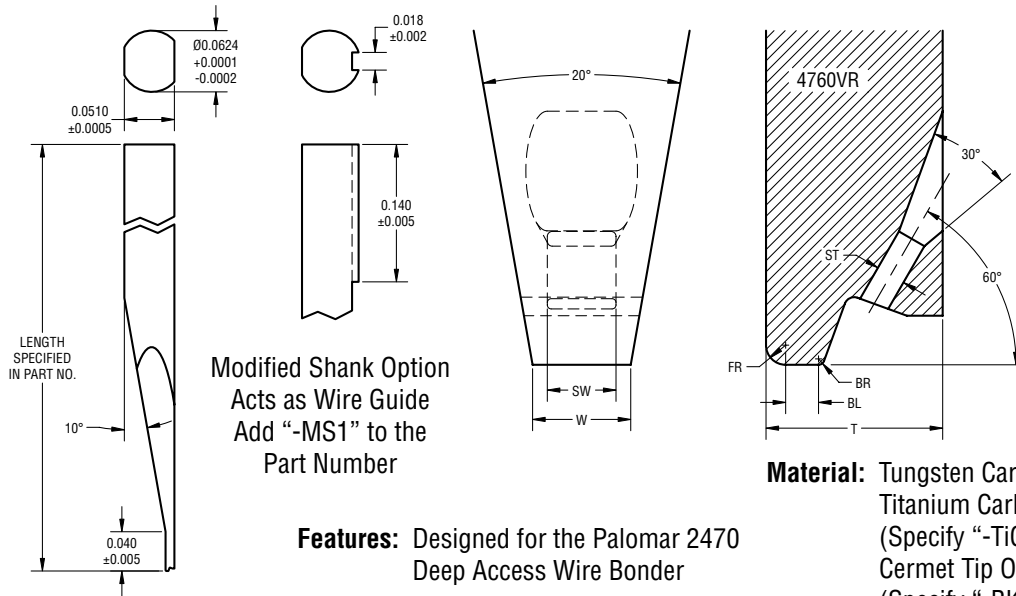
(RT=“.5”=0.0005 in., RW=“4”=0.0040 in., BL or BF=“2.0”=0.0020 in.)

4660R-1-5-3.0-3/4-BKCR

(RT=“1”=0.0010 in., RW=“5”=0.0050 in., BL or BF=“3.0”=0.0030 in.)

BL (BF) in. / μm ±0.0002 / 5	FR in. / μm ±0.0002 / 5	BR in./μm +0.0002 / 5 -0.0001 / 2.5	SW in. / μm ±0.0005 / 13	W in. / μm ±0.0003 / 8	T 45° in. / μm ±0.0005 / 13	T 60° in. / μm ±0.0005 / 13	RIBBON THICKNESS in. / μm	RIBBON WIDTH in. / μm
0.0010 / 25	0.0010 / 25	0.0003 / 8	0.0035 / 89	0.005 / 127	0.009 / 229	0.008 / 203	0.00025 / 6 to 0.0005 / 13	0.002 / 51
0.0015 / 38	0.0010 / 25	0.0003 / 8	0.0035 / 89	0.005 / 127	0.009 / 229	0.008 / 203		
0.0020 / 51	0.0010 / 25	0.0003 / 8	0.0035 / 89	0.005 / 127	0.010 / 254	0.009 / 229		
0.0020 / 51	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.010 / 254	0.009 / 229		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.010 / 254	0.009 / 229	0.0005 / 13 to 0.001 / 25	0.003 / 76
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.011 / 279	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0050 / 127	0.007 / 178	0.012 / 305	0.011 / 279		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0060 / 152	0.008 / 203	0.010 / 254	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0060 / 152	0.008 / 203	0.011 / 279	0.010 / 254	0.0005 / 13 to 0.002 / 51	0.004 / 102
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0060 / 152	0.008 / 203	0.012 / 305	0.011 / 279		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0070 / 178	0.009 / 229	0.010 / 254	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0070 / 178	0.009 / 229	0.011 / 279	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0070 / 178	0.009 / 229	0.012 / 305	0.011 / 279	0.0005 / 13 to 0.002 / 51	0.005 / 127
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0110 / 279	0.013 / 330	0.011 / 279	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0110 / 279	0.013 / 330	0.012 / 305	0.011 / 279		
0.0050 / 127	0.0010 / 25	0.0003 / 8	0.0110 / 279	0.013 / 330	0.013 / 330	0.012 / 305		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.011 / 279	0.010 / 254	0.0005 / 13 to 0.002 / 51	0.008 / 203
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.012 / 305	0.011 / 279		
0.0050 / 127	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.013 / 330	0.012 / 305		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.012 / 305	0.011 / 279		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.013 / 330	0.012 / 305	0.0005 / 13 to 0.002 / 51	0.010 / 254
0.0050 / 127	0.0010 / 25	0.0003 / 8	0.0130 / 330	0.016 / 406	0.013 / 330	0.012 / 305		

Chart contains typical configurations. T dimension varies with ribbon size – consult factory for exact T dimension.
Other configurations available based on ribbon size.
Dimensions in inches unless otherwise specified.



Modified Shank Option
Acts as Wire Guide
Add “-MS1” to the
Part Number

Features: Designed for the Palomar 2470
Deep Access Wire Bonder

Material: Tungsten Carbide Standard
Titanium Carbide Optional
(Specify “-TiC” in part no.)
Cermet Tip Optional
(Specify “-BK CER” in part no.)

Specify: Series/Ribbon Feed Angle - Ribbon Thickness - Ribbon Width - Bond Length - Tool Length - Options

Example:

4760VR-.5-4-2.0-3/4

(RT=“0.5”=0.0005 in., RW=“4”=0.0040 in., BL or BF=“2.0”=0.0020 in.)

4760VR-1-5-3.0-3/4-CG-TiC

(RT=“1”=0.0010 in., RW=“5”=0.0050 in., BL or BF=“3.0”=0.0030 in.)

BL (BF) in. / μm ±0.0002 / 5	FR in. / μm ±0.0002 / 5	BR in. / μm +0.0002 / 5 -0.0001 / 2.5	ST in. / μm ±0.0002 / 5	SW in. / μm ±0.0005 / 13	W in. / μm ±0.0003 / 8	*T in. / μm ±0.0005 / 13	RIBBON THICKNESS in. / μm	RIBBON WIDTH in. / μm
0.0005 / 13	0.0010 / 25	0.0003 / 8	0.0015 / 38	0.0035 / 89	0.005 / 127	0.008 / 203	0.00025 / 6 to 0.0009 / 23	0.002 / 51
0.0010 / 25	0.0010 / 25	0.0003 / 8	0.0015 / 38	0.0035 / 89	0.005 / 127	0.008 / 203		
0.0015 / 38	0.0010 / 25	0.0003 / 8	0.0015 / 38	0.0035 / 89	0.005 / 127	0.008 / 203		
0.0020 / 51	0.0010 / 25	0.0003 / 8	0.0015 / 38	0.0035 / 89	0.005 / 127	0.009 / 229		
0.0020 / 51	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0050 / 127	0.007 / 178	0.009 / 229	0.0010 / 25 to 0.0019 / 48	0.003 / 76
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0050 / 127	0.007 / 178	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0050 / 127	0.007 / 178	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0050 / 127	0.007 / 178	0.011 / 279		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0060 / 152	0.008 / 203	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0060 / 152	0.008 / 203	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0060 / 152	0.008 / 203	0.011 / 279		
0.0025 / 64	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0070 / 178	0.009 / 229	0.009 / 229		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0070 / 178	0.009 / 229	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0070 / 178	0.009 / 229	0.011 / 279		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0110 / 279	0.013 / 330	0.010 / 254	0.008 / 203	
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0110 / 279	0.013 / 330	0.011 / 279		
0.0050 / 127	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0110 / 279	0.013 / 330	0.012 / 305		
0.0030 / 76	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0130 / 330	0.016 / 406	0.010 / 254		
0.0040 / 102	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0130 / 330	0.016 / 406	0.011 / 279	0.010 / 254	
0.0050 / 127	0.0010 / 25	0.0003 / 8	0.0025 / 64	0.0130 / 330	0.016 / 406	0.012 / 305		

Chart contains typical configurations. T dimension varies with ribbon size – consult factory for exact T dimension.
Other configurations available based on ribbon size.
Dimensions in inches unless otherwise specified.