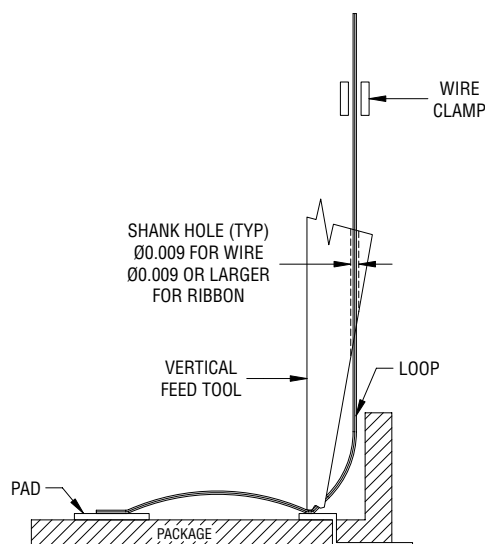


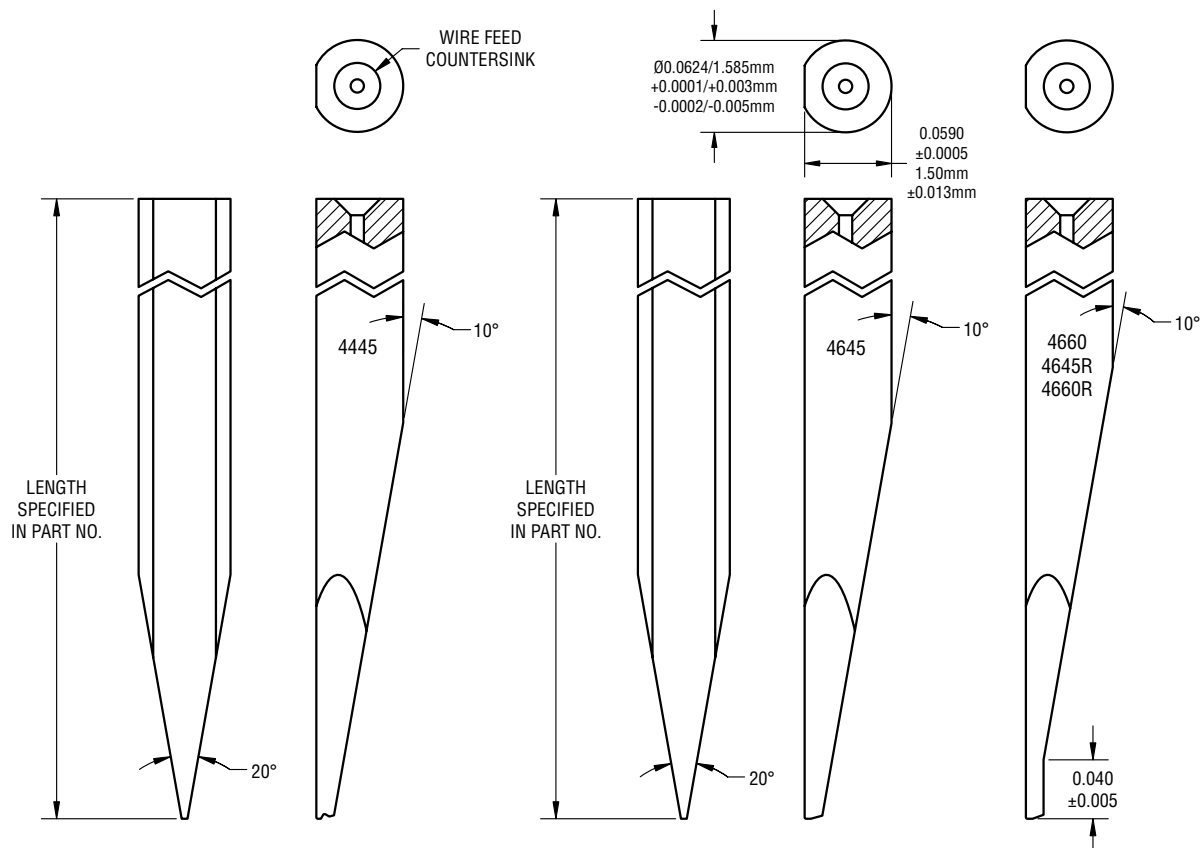
The deep access wedge design was created in order to meet the challenge of bonding into deep-cavity packages. The high walls of these packages make access with conventional 30°, 45°, and 60° wedge bonders very difficult. With a conventional bonder, the position of the wire clamps behind the bonding wedge limits access into deep packages. Also, the wire may be impeded between the wire clamps and the wedge by these walls.

Deep-access wedge bonders feed the wire vertically down the center of the tool. The wire clamp is located above the wedge instead of behind the wedge. This clamp position allows the wedge to penetrate deep-cavity packages.

The deep access bonding wedge is a combination of both a wedge and a capillary. The wire travels through the center of the wedge shank, exits down toward the bottom, out the back of the shank, and re-enters through the wire feed hole at either a 45° or 60° angle. This innovation in wedge bonding has provided the opportunity for small bond lengths into deep cavity packages.

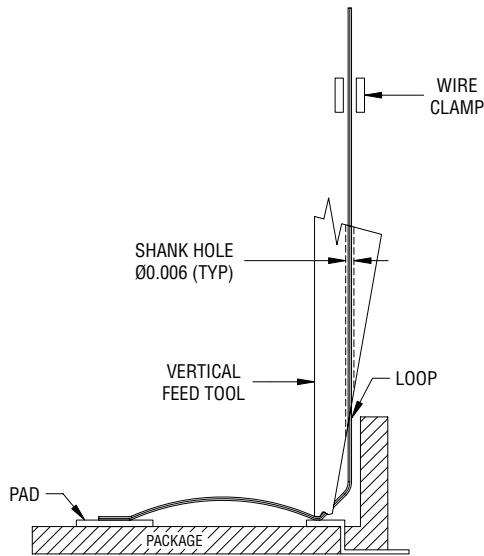


**Standard Shank for
4445, 4645, 4660, 4645R, & 4660R**



Standard Shank V-Notch Design

Standard Shank MaxiGuide™ Design

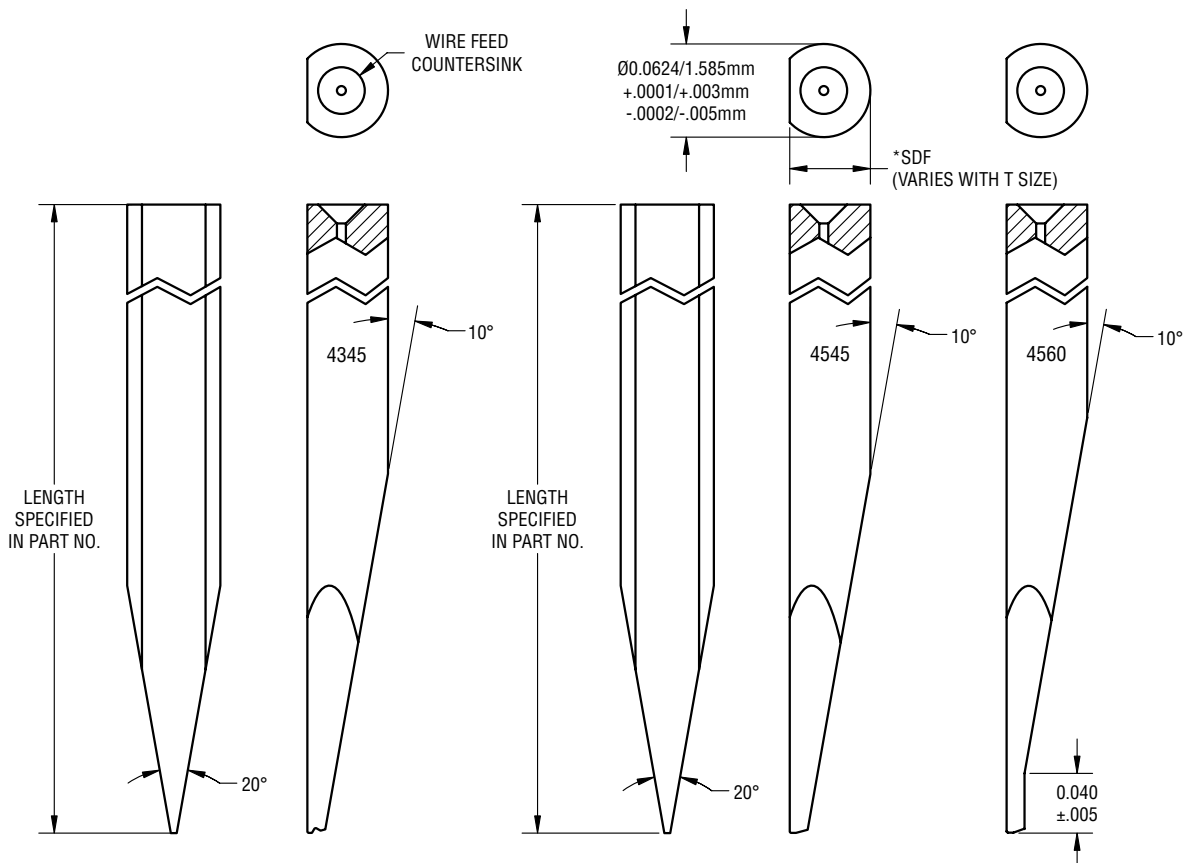


The close guide shank design locates the shank hole close to the wedge hole for optimum tail length control.

The following bonding machines use the deep access tool:

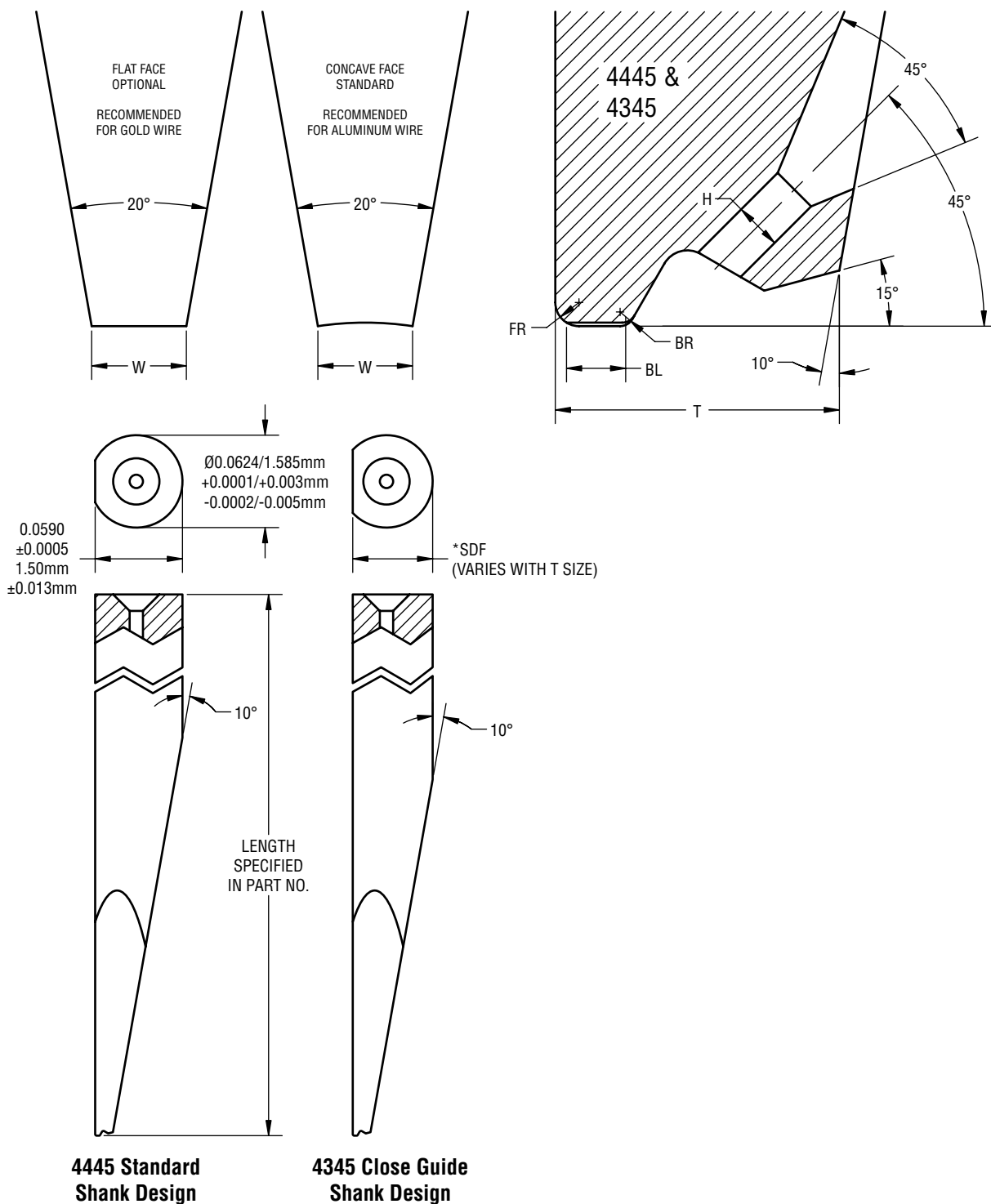
Hybond Model
K&S Model 4129
Mech EI Model 990
West Bond Model 4600 & 7400A-46

Close Guide Shank for 4345, 4545, & 4560



Close Guide V-Notch Design

Close Guide MaxiGuide™ Design



Specify:

Series/Wire Feed Angle - Hole Size/Bond Length - Length - Options

Example:

4445-2020-S

4345-1510-3/4-F-V-BKCER

*Specify "-V" when ordering with Cermet tip

Material:

Tungsten Carbide Standard

Titanium Carbide Optional

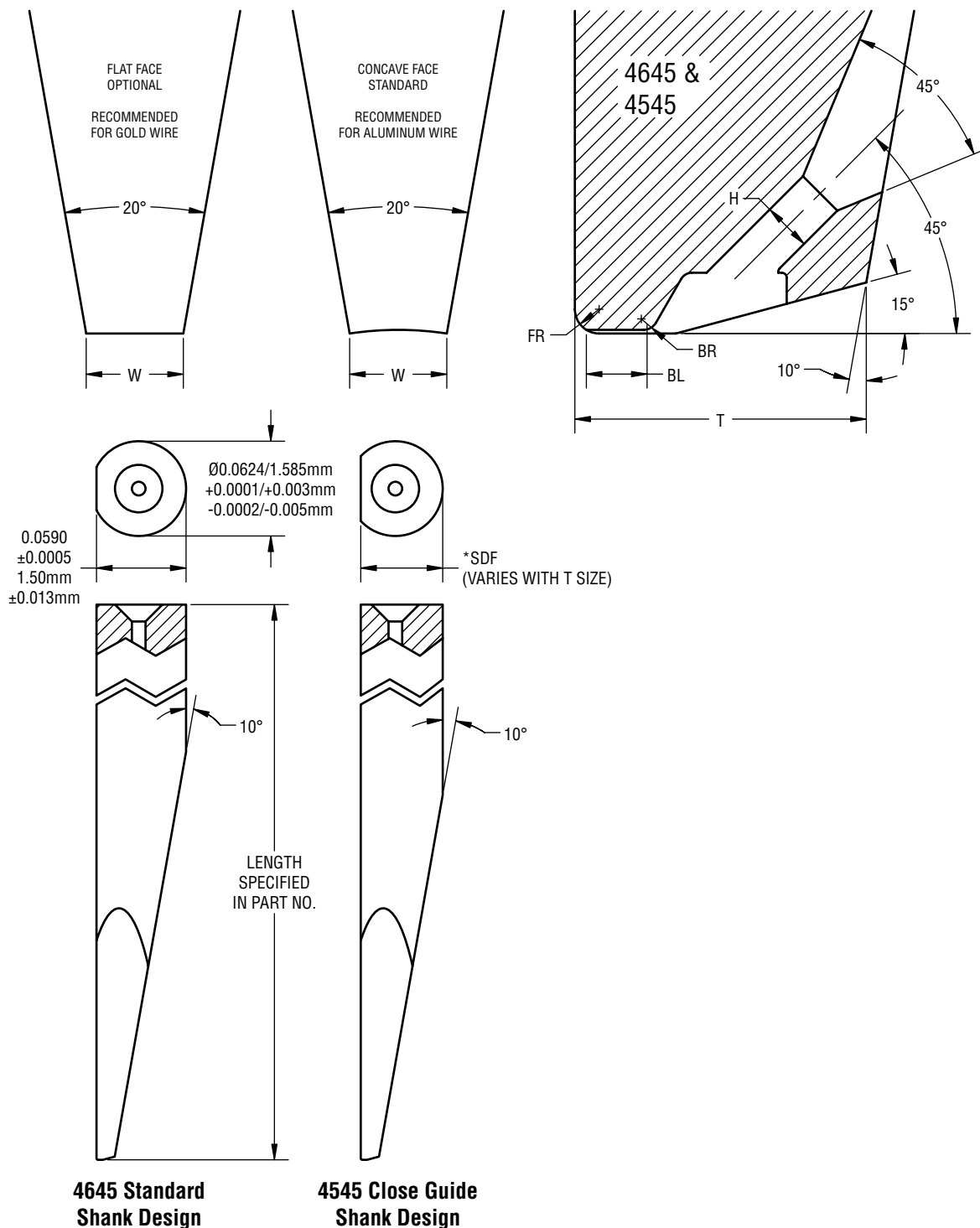
(Specify "-TiC" in part no.)

Cermet Tip Optional

(Specify "-BKCER" in part no.)

DASH NUMBER	H in. / μ m $\pm 0.0002 / 5$	BL in. / μ m $\pm 0.0002 / 5$	W in. / μ m $\pm 0.0002 / 5$	FR in. / μ m $\pm 0.0002 / 5$	BR in. / μ m $\pm 0.0002 / 5$	T in. / μ m $\pm 0.0005 / 13$	SUGGESTED WIRE DIAMETER in. / μ m
*1305	0.0013 / 33	0.0005 / 13	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0080 / 203	0.0007 / 18 to 0.0008 / 20
*1307	0.0013 / 33	0.0007 / 18	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0080 / 203	
1315	0.0013 / 33	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0080 / 203	
*1305A	0.0013 / 33	0.0005 / 13	0.0025 / 64	0.0005 / 13	0.0000 / 0	0.0080 / 203	
*1307A	0.0013 / 33	0.0007 / 18	0.0025 / 64	0.0005 / 13	0.0000 / 0	0.0080 / 203	
1310A	0.0013 / 33	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0080 / 203	
1315A	0.0013 / 33	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0090 / 229	
1320A	0.0013 / 33	0.0020 / 51	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0090 / 229	
*1505	0.0015 / 38	0.0005 / 13	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0120 / 305	
*1507	0.0015 / 38	0.0007 / 18	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0120 / 305	
*1510	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0120 / 305	
*1513	0.0015 / 38	0.0013 / 33	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0120 / 305	
1515	0.0015 / 38	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0120 / 305	
1520	0.0015 / 38	0.0020 / 51	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0120 / 305	
1525	0.0015 / 38	0.0025 / 64	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0120 / 305	
1540	0.0015 / 38	0.0040 / 102	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0120 / 305	
*1505A	0.0015 / 38	0.0005 / 13	0.0025 / 64	0.0005 / 13	0.0000 / 0	0.0120 / 305	
*1507A	0.0015 / 38	0.0007 / 18	0.0025 / 64	0.0005 / 13	0.0000 / 0	0.0120 / 305	
*1510A	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0120 / 305	
1515A	0.0015 / 38	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0120 / 305	
1519A	0.0015 / 38	0.0019 / 48	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0120 / 305	
1520A	0.0015 / 38	0.0020 / 51	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0120 / 305	
*1510B	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0004 / 10	0.0004 / 10	0.0080 / 203	
*2010	0.0020 / 51	0.0010 / 25	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	0.0010 / 25
2015	0.0020 / 51	0.0015 / 38	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2020	0.0020 / 51	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2025	0.0020 / 51	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2030	0.0020 / 51	0.0030 / 76	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2015A	0.0020 / 51	0.0015 / 38	0.0040 / 102	0.0010 / 25	0.0000 / 0	0.0120 / 305	
2020A	0.0020 / 51	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0000 / 0	0.0120 / 305	
2025A	0.0020 / 51	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0000 / 0	0.0120 / 305	
2520	0.0025 / 64	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0130 / 330	0.0010 / 25 to 0.0013 / 33
2525	0.0025 / 64	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0130 / 330	
2530	0.0025 / 64	0.0030 / 76	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0140 / 356	
2540	0.0025 / 64	0.0040 / 102	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0150 / 381	
2525A	0.0025 / 64	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0000 / 0	0.0130 / 330	
3025	0.0030 / 76	0.0025 / 64	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0160 / 406	0.0015 / 38 to 0.0018 / 46
3030	0.0030 / 76	0.0030 / 76	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0160 / 406	
3035	0.0030 / 76	0.0035 / 89	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0170 / 432	
3040	0.0030 / 76	0.0040 / 102	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0170 / 432	
3045	0.0030 / 76	0.0045 / 114	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0180 / 457	
3050	0.0030 / 76	0.0050 / 127	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0180 / 457	
3035A	0.0030 / 76	0.0035 / 89	0.0050 / 127	0.0015 / 38	0.0000 / 0	0.0170 / 432	
3045A	0.0030 / 76	0.0045 / 114	0.0050 / 127	0.0015 / 38	0.0000 / 0	0.0180 / 457	
3535	0.0035 / 89	0.0035 / 89	0.0060 / 152	0.0015 / 38	0.0010 / 25	0.0180 / 457	0.0020 / 51
3540	0.0035 / 89	0.0040 / 102	0.0060 / 152	0.0015 / 38	0.0010 / 25	0.0190 / 483	
3535A	0.0035 / 89	0.0035 / 89	0.0060 / 152	0.0015 / 38	0.0000 / 0	0.0180 / 457	
4035	0.0040 / 102	0.0035 / 89	0.0060 / 152	0.0015 / 38	0.0010 / 25	0.0190 / 483	0.0020 / 51 to 0.0025 / 64
4045	0.0040 / 102	0.0045 / 114	0.0060 / 152	0.0015 / 38	0.0010 / 25	0.0200 / 508	
4040A	0.0040 / 102	0.0040 / 102	0.0060 / 152	0.0015 / 38	0.0000 / 0	0.0200 / 508	
4540	0.0045 / 114	0.0040 / 102	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0220 / 559	0.0030 / 76
4550	0.0045 / 114	0.0050 / 127	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0230 / 584	
4555	0.0045 / 114	0.0055 / 140	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0230 / 584	
4560	0.0045 / 114	0.0060 / 152	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0240 / 610	
4545A	0.0045 / 114	0.0045 / 114	0.0070 / 178	0.0020 / 51	0.0000 / 0	0.0220 / 559	

*Flat Face Only. Other part numbers are available. Dimensions in inches unless otherwise specified.



Specify:

Series/Wire Feed Angle - Hole Size/Bond Length - Length - Options

Example:

4645-2020-S

4545-1510-3/4-F-V-BKCER

*Specify "-V" when ordering with Cermet tip

Material:

Tungsten Carbide Standard

Titanium Carbide Optional

(Specify "-TiC" in part no.)

Cermet Tip Optional

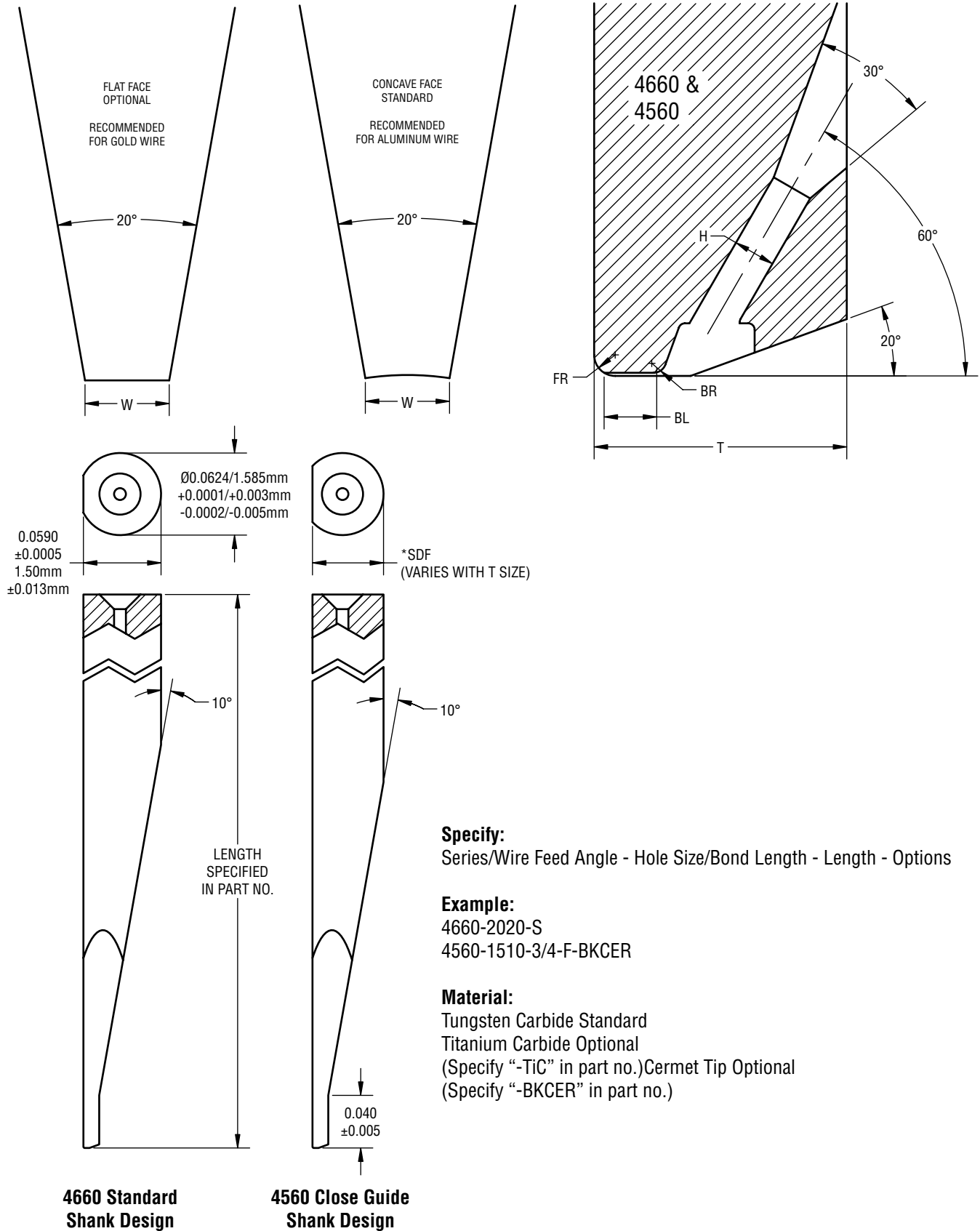
(Specify "-BKCER" in part no.)

DASH NUMBER	H in. / μ m ± 0.0002 / 5	BL in. / μ m ± 0.0002 / 5	W in. / μ m ± 0.0002 / 5	FR in. / μ m ± 0.0002 / 5	BR in. / μ m ± 0.0002 / 5	T in. / μ m ± 0.0005 / 13	SUGGESTED WIRE DIAMETER in. / μ m
0.0013 hole uses the same specifications as the 0.0015 hole except for the hole dimension							0.0007 / 18 to 0.0008 / 20
0.0014 hole uses the same specifications as the 0.0015 hole except for the hole dimension							
*1505	0.0015 / 38	0.0005 / 13	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0080 / 203	
*1507	0.0015 / 38	0.0007 / 18	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0080 / 203	
*1510	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0090 / 229	
*1513	0.0015 / 38	0.0013 / 33	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0090 / 229	
1515	0.0015 / 38	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0090 / 229	
1520	0.0015 / 38	0.0020 / 51	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0100 / 254	
1525	0.0015 / 38	0.0025 / 64	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0100 / 254	
*1510A	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0090 / 229	
1515A	0.0015 / 38	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0090 / 229	
0.0018 hole uses the same specifications as the 0.0020 hole except for the hole dimension							0.0008 / 20 to 0.0010 / 25
*2007	0.0020 / 51	0.0007 / 18	0.0040 / 102	0.0005 / 13	0.0005 / 13	0.0100 / 254	0.0010 / 25
*2010	0.0020 / 51	0.0010 / 25	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0100 / 254	
2015	0.0020 / 51	0.0015 / 38	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0110 / 279	
2020	0.0020 / 51	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0110 / 279	
2025	0.0020 / 51	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2030	0.0020 / 51	0.0030 / 76	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2035	0.0020 / 51	0.0035 / 89	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0130 / 330	
2040	0.0020 / 51	0.0040 / 102	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0130 / 330	
2050	0.0020 / 51	0.0050 / 127	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0140 / 356	
0.0022 hole uses the same specifications as the 0.0025 hole except for the hole dimension							
2520	0.0025 / 64	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0130 / 330	
2525	0.0025 / 64	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0140 / 356	
2530	0.0025 / 64	0.0030 / 76	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0140 / 356	
2535	0.0025 / 64	0.0035 / 89	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0150 / 381	
2540	0.0025 / 64	0.0040 / 102	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0150 / 381	
2525A	0.0025 / 64	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0000 / 0	0.0130 / 330	
3020	0.0030 / 76	0.0020 / 51	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0170 / 432	0.0015 / 38 to 0.0018 / 46
3025	0.0030 / 76	0.0025 / 64	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0180 / 457	
3030	0.0030 / 76	0.0030 / 76	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0180 / 457	
3035	0.0030 / 76	0.0035 / 89	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0190 / 483	
3040	0.0030 / 76	0.0040 / 102	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0190 / 483	
3050	0.0030 / 76	0.0050 / 127	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0200 / 508	
4545	0.0045 / 114	0.0045 / 114	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0240 / 610	
4560	0.0045 / 114	0.0060 / 152	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0270 / 686	

*Flat Face Only.

Other part numbers are available.

Dimensions in inches unless otherwise specified.



Specify:

Series/Wire Feed Angle - Hole Size/Bond Length - Length - Options

Example:

4660-2020-S

4560-1510-3/4-F-BKCER

Material:

Tungsten Carbide Standard

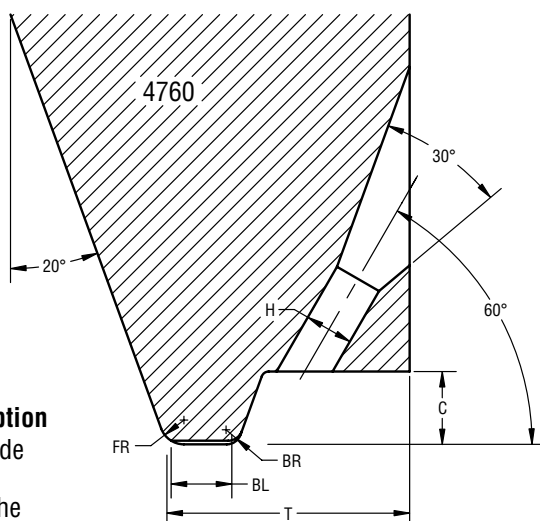
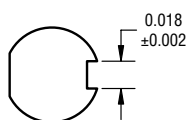
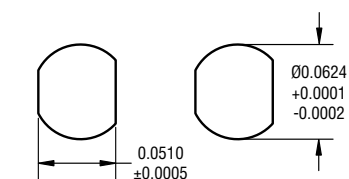
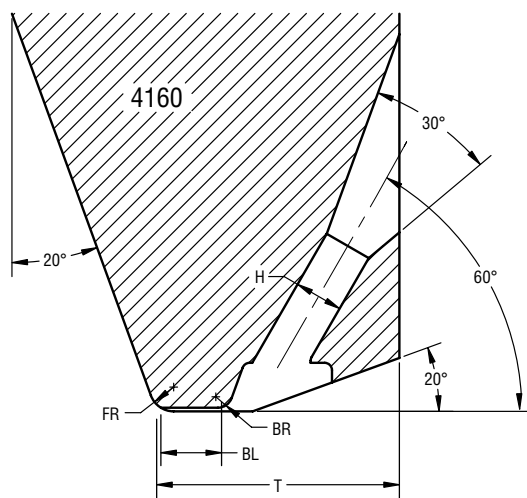
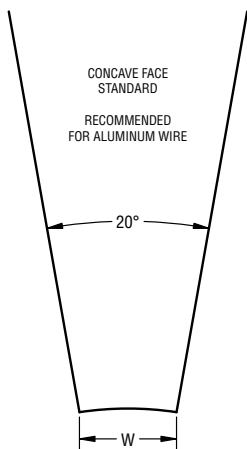
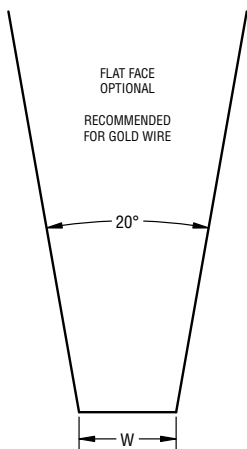
Titanium Carbide Optional

(Specify "-TiC" in part no.) Cermet Tip Optional

(Specify "-BK CER" in part no.)

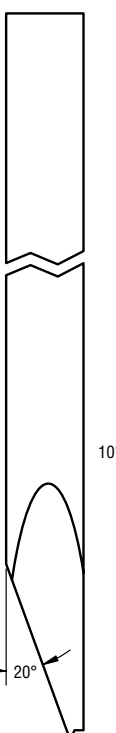
DASH NUMBER	H in. / μ m ± 0.0002 / 5	BL in. / μ m ± 0.0002 / 5	W in. / μ m ± 0.0002 / 5	FR in. / μ m ± 0.0002 / 5	BR in. / μ m ± 0.0002 / 5	T in. / μ m ± 0.0005 / 13	SUGGESTED WIRE DIAMETER in. / μ m
0.0013 hole uses the same specifications as the 0.0015 Hole except for the hole dimension							0.0007 / 18 to 0.0008 / 20
*1505	0.0015 / 38	0.0005 / 13	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0090 / 229	
*1507	0.0015 / 38	0.0007 / 18	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0090 / 229	
*1508	0.0015 / 38	0.0008 / 20	0.0025 / 64	0.0010 / 25	0.0006 / 15	0.0090 / 229	
*1510	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0090 / 229	
*1513	0.0015 / 38	0.0013 / 33	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0100 / 254	
1515	0.0015 / 38	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0100 / 254	
1518	0.0015 / 38	0.0018 / 46	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0100 / 254	
1520	0.0015 / 38	0.0020 / 51	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0100 / 254	
1525	0.0015 / 38	0.0025 / 64	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0110 / 279	
1530	0.0015 / 38	0.0030 / 76	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0110 / 279	
1535	0.0015 / 38	0.0035 / 89	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0120 / 305	
*1508A	0.0015 / 38	0.0008 / 20	0.0025 / 64	0.0010 / 25	0.0000 / 0	0.0090 / 229	
*1510A	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0090 / 229	
1515A	0.0015 / 38	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0000 / 0	0.0100 / 254	
0.0017 hole uses the same specifications as the 0.0015 hole except for the hole dimension							0.0008 / 20 to 0.0010 / 25
0.0018 hole uses the same specifications as the 0.0020 hole except for the hole dimension							
*2005	0.0020 / 51	0.0005 / 13	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	0.0010 / 25
*2007	0.0020 / 51	0.0007 / 18	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
*2010	0.0020 / 51	0.0010 / 25	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
*2012	0.0020 / 51	0.0012 / 30	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2015	0.0020 / 51	0.0015 / 38	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2020	0.0020 / 51	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2025	0.0020 / 51	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2030	0.0020 / 51	0.0030 / 76	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2515	0.0025 / 64	0.0015 / 38	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0110 / 279	0.0010 / 25 to 0.0013 / 33
2520	0.0025 / 64	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2525	0.0025 / 64	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	
2530	0.0025 / 64	0.0030 / 76	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0120 / 305	
2520A	0.0025 / 64	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0000 / 0	0.0110 / 279	
2525A	0.0025 / 64	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0000 / 0	0.0120 / 305	
0.0027 hole uses the same specifications as the 0.0025 hole except for the hole dimension							0.0013 / 33 to 0.0015 / 38
*3010	0.0030 / 76	0.0010 / 25	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0130 / 330	0.0015 / 38 to 0.0018 / 46
3015	0.0030 / 76	0.0015 / 38	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0130 / 330	
3020	0.0030 / 76	0.0020 / 51	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0140 / 356	
3025	0.0030 / 76	0.0025 / 64	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0140 / 356	
3030	0.0030 / 76	0.0030 / 76	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0150 / 381	
3035	0.0030 / 76	0.0035 / 89	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0150 / 381	
3040	0.0030 / 76	0.0040 / 102	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0150 / 381	
3525	0.0035 / 89	0.0025 / 64	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0150 / 381	0.0020 / 51
3530	0.0035 / 89	0.0030 / 76	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0150 / 381	
3535	0.0035 / 89	0.0035 / 89	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0160 / 406	
3540	0.0035 / 89	0.0040 / 102	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0160 / 406	
3550	0.0035 / 89	0.0050 / 127	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0170 / 432	
4030	0.0040 / 102	0.0030 / 76	0.0060 / 152	0.0015 / 38	0.0010 / 25	0.0170 / 432	0.0020 / 51 to 0.0025 / 64
4040	0.0040 / 102	0.0040 / 102	0.0060 / 152	0.0015 / 38	0.0010 / 25	0.0180 / 457	
4540	0.0045 / 114	0.0040 / 102	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0200 / 508	0.0030 / 76
4545	0.0045 / 114	0.0045 / 114	0.0070 / 178	0.0020 / 51	0.0010 / 25	0.0200 / 508	

*Flat Face Only. Other part numbers are available. Dimensions in inches unless otherwise specified.



Modified Shank Option
Acts as Wire Guide

Add "-MS1" to the
Part Number.



**4160 Style
Standard
Shank**

**4160V Style
Vertical
Grind Shank**

**4760 Style
Standard
Shank**

**4760V Style
Vertical
Grind Shank**

Features:

Designed for the Palomar 2470
Deep Access Wire Bonder.

Material:

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

Specify: Series/Wire Feed Angle - Hole Size/Bond Length - Length - Options

Example:

4160-2020-S

4760V-1510-3/4-F-BKCR

DASH NUMBER	H in. / μm $\pm 0.0002 / 5$	BL in. / μm $\pm 0.0002 / 5$	W in. / μm $\pm 0.0002 / 5$	FR in. / μm $\pm 0.0002 / 5$	BR in. / μm $\pm 0.0002 / 5$	T in. / μm $\pm 0.0005 / 13$	C in. / μm (ref) (4760 only)	SUGGESTED WIRE DIAMETER in. / μm
0.0013 hole uses the same specifications as the 0.0015 hole except for the hole dimension								0.0005 / 13 to 0.0008 / 20
*1505	0.0015 / 38	0.0005 / 13	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0080 / 203	0.002 / 51	
*1507	0.0015 / 38	0.0007 / 18	0.0025 / 64	0.0005 / 13	0.0005 / 13	0.0080 / 203	0.002 / 51	
*1510	0.0015 / 38	0.0010 / 25	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0080 / 203	0.002 / 51	
1515	0.0015 / 38	0.0015 / 38	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0080 / 203	0.002 / 51	
1520	0.0015 / 38	0.0020 / 51	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0080 / 203	0.002 / 51	
1525	0.0015 / 38	0.0025 / 64	0.0030 / 76	0.0010 / 25	0.0006 / 15	0.0090 / 229	0.002 / 51	0.0008 / 20 to 0.0010 / 25
0.0017 hole uses the same specifications as the 0.0015 hole except for the hole dimension								
0.0018 hole uses the same specifications as the 0.0020 hole except for the hole dimension								
*2005	0.0020 / 51	0.0005 / 13	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0080 / 203	0.003 / 76	0.0010 / 25 to 0.0015 / 38
*2010	0.0020 / 51	0.0010 / 25	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0090 / 229	0.003 / 76	
2015	0.0020 / 51	0.0015 / 38	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0090 / 229	0.003 / 76	
2020	0.0020 / 51	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0100 / 254	0.003 / 76	
2025	0.0020 / 51	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0100 / 254	0.003 / 76	
2030	0.0020 / 51	0.0030 / 76	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0110 / 279	0.003 / 76	
2035	0.0020 / 51	0.0035 / 89	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0110 / 279	0.003 / 76	0.0012 / 30 to 0.0015 / 38
*2510	0.0025 / 64	0.0010 / 25	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0100 / 254	0.003 / 76	
2515	0.0025 / 64	0.0015 / 38	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0110 / 279	0.003 / 76	
2520	0.0025 / 64	0.0020 / 51	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0110 / 279	0.003 / 76	
2525	0.0025 / 64	0.0025 / 64	0.0040 / 102	0.0010 / 25	0.0006 / 15	0.0120 / 305	0.003 / 76	
2530	0.0025 / 64	0.0030 / 76	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0130 / 330	0.003 / 76	
2535	0.0025 / 64	0.0035 / 89	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0130 / 330	0.003 / 76	
2540	0.0025 / 64	0.0040 / 102	0.0040 / 102	0.0015 / 38	0.0006 / 15	0.0140 / 356	0.003 / 76	0.0015 / 38 to 0.0020 / 51
3020	0.0030 / 76	0.0020 / 51	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0140 / 356	0.004 / 102	
3025	0.0030 / 76	0.0025 / 64	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0140 / 356	0.004 / 102	
3030	0.0030 / 76	0.0030 / 76	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0150 / 381	0.004 / 102	
3035	0.0030 / 76	0.0035 / 89	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0150 / 381	0.004 / 102	
3040	0.0030 / 76	0.0040 / 102	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0160 / 406	0.004 / 102	
3045	0.0030 / 76	0.0045 / 114	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0160 / 406	0.004 / 102	
3050	0.0030 / 76	0.0050 / 127	0.0050 / 127	0.0015 / 38	0.0010 / 25	0.0170 / 432	0.004 / 102	

*Flat Face Only.

Other part numbers are available.

Dimensions in inches unless otherwise specified.

capillaries

wedges

tab tools

die attach

other