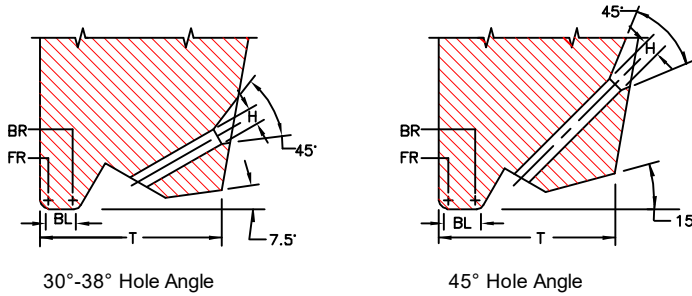


SERIES AS/AS-V

SMALL WIRE & LARGE WIRE

FOR MANUAL AND SEMI-AUTOMATIC BONDERS

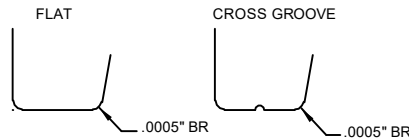


FOR AS-V SERIES (VERTICAL FEED)

FOR AS SERIES

Available Vertical Hole Ø marked with X

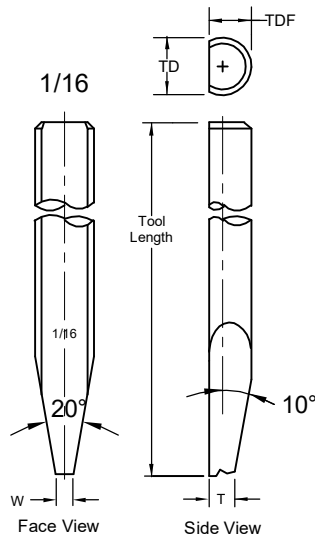
	TD		TDF		For Vertical Hole
	in.	mm	in.	mm	
1/16	.0624	1.59	.0460	1.17	
1/16	.0624	1.59	.0590	1.50	X
	.0784	1.99	.0630	1.60	
	.0784	1.99	.0720	1.83	X
3/32	.0937	2.38	.0880	2.24	X
	.1180	3.00	.0985	2.50	
1/8	.1249	3.17	.0937	2.38	
1/8	.1249	3.17	.1180	3.00	



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

AS-SERIES SMALL WIRE

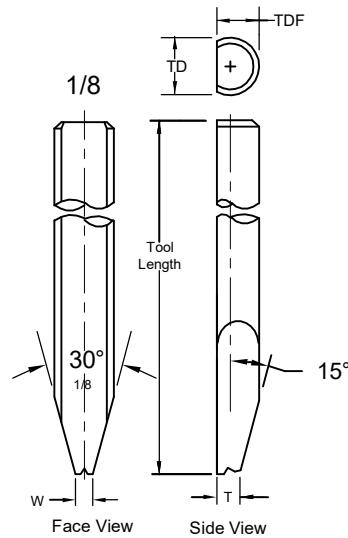
.0005" through .0020" wireØ



Standard: Ø 1/16, 45° Hole Angle

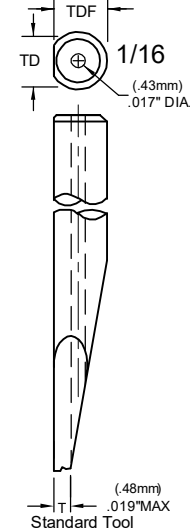
AS-SERIES LARGE WIRE

For wire diameters .0030" through .0160"

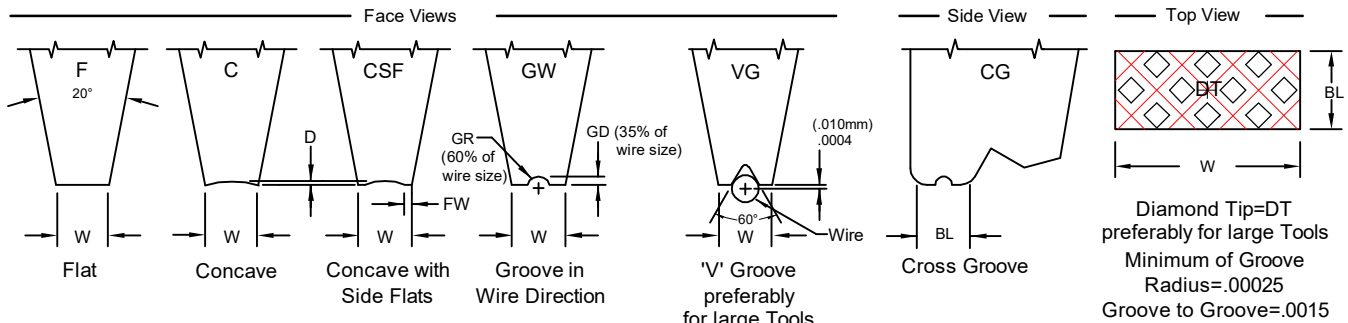


AS-V SERIES VERTICAL FEED DEEP ACCESS

.0005" through .0020" wireØ



Standard: Ø 1/16 45° Hole Angle



SERIES AS/AS-V

SMALL WIRE & LARGE WIRE

ORDERING INFORMATION
SMALL & LARGE WIRE BONDING WEDGES
FOR GOLD AND ALUMINUM WIRE

SAMPLE PART NUMBER: M-AS-O-X-1/16-1-45-CG-2020-M-*

SYMBOL EXPLANATION: 1 2 3 4 5 6 7 8 9 10 11

- MATERIAL:**
 - M = Ceramic
 - C = Tungsten Carbide
 - T = Titanium
 - All other: see Material Selection Guide
- SERIES:** AS (Small wire & Large wire)
- WIRE FEED:** O = Standard Feed
V = Vertical Feed
- FRONT/BACK RADIUS:** See Radius Option Chart
*For special Radius sizes insert an X Please specify FR/BR
- SHANK DIA.:** Please Specify Diameter
- TOOL LENGTH:** Please Specify Length
- HOLE ANGLE:** for AS (30°, 38°, 45°), for AS-V (45°)

(11) See Tool Option

(10) 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)

(9) TOOL SIZE See Standard Chart

(8) FOOT TYPE:
F = Flat
C = Concave
CSF = Concave with Side Flats (CSF not available with ceramic tools)
CG = Cross Groove
GW = Groove in wire direction (Please specify wire size)
DT = Diamond Tip (Please specify Ribbon size)
VG = V Groove (Please specify wire size)

*NOTE: Please specify for either guillotine cut or tension break.
On V-groove tools the bond length (BL) is the same as the foot length (FL).
For special sizes or dimensions insert an (X) in the appropriate position of the part number then specify what (X) equals.
Example: M-AS-O-X-1/16-3/4-45-CG-2020-M (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
	BACK RADIUS	in.	0	.0005	0	.0005	.0010	0	.0005	.0010	.0015	0	.0005	.0010	.0015	.0020

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.

STANDARD CHART AS SMALL WIRE: FOR WIRE DIAMETERS .0005" THROUGH .0020"											SUGGESTED WD	
TS	H	BL	D	T(30°38°)	T(45°)	W						
Units	in.	μ	in.	μ	in.	μ	in.	μ	in.	μ	in.	μ
Tolerance	±.0002	±5	±.0002	±5	-.0001	-2.5	±.0005	±13	±.0005	±13	±.0005	±13
1505	.0015	38	.0005	13	.0002	5	.0140	356	.0115	292	.0025	64
1507	.0015	38	.0007	18	.0002	5	.0140	356	.0115	292	.0025	64
1510	.0015	38	.0010	25	.0002	5	.0150	381	.0125	318	.0025	64
1513	.0015	38	.0013	33	.0002	5	.0150	381	.0125	318	.0025	64
1515	.0015	38	.0015	38	.0002	5	.0150	381	.0130	330	.0025	64
1520	.0015	38	.0020	51	.0002	5	.0155	394	.0135	343	.0025	64
Tolerance	±.0002	±5	±.0002	±5	-.0001	-2.5	0.0005	12.7	±.0005	±13	±.0002	±5
2010	.0020	51	.0010	25	.0002	5	.0160	406	.0135	343	.0040	102
2015	.0020	51	.0015	38	.0002	5	.0165	419	.0135	343	.0040	102
2020	.0020	51	.0020	51	.0002	5	.0165	419	.0140	356	.0040	102
2025	.0020	51	.0025	64	.0002	5	.0170	432	.0150	381	.0040	102
2030	.0020	51	.0030	76	.0002	5	.0175	445	.0150	381	.0040	102
2520	.0025	64	.0020	51	.0002	5	.0180	457	.0150	381	.0040	102
2525	.0025	64	.0025	64	.0002	5	.0180	457	.0150	381	.0040	102
2530	.0025	64	.0030	76	.0002	5	.0195	495	.0160	406	.0040	102
2535	.0025	64	.0035	89	.0002	5	.0195	495	.0170	432	.0040	102
2540	.0025	64	.0040	102	.0002	5	.0200	508	.0170	432	.0040	102
3020	.0030	76	.0020	51	.0003	8	.0190	483	.0170	432	.0050	127
3025	.0030	76	.0025	64	.0003	8	.0200	508	.0170	432	.0050	127
3030	.0030	76	.0030	76	.0003	8	.0200	508	.0180	457	.0050	127
3035	.0030	76	.0035	89	.0003	8	.0210	533	.0180	457	.0050	127
3040	.0030	76	.0040	102	.0003	8	.0210	533	.0190	483	.0050	127
3525	.0035	89	.0025	64	.0003	8	.0220	559	.0190	483	.0060	152
3530	.0035	89	.0030	76	.0003	8	.0220	559	.0200	508	.0060	152
3535	.0035	89	.0035	89	.0003	8	.0230	584	.0200	508	.0060	152
3540	.0035	89	.0040	102	.0003	8	.0230	584	.0210	533	.0060	152
3545	.0035	89	.0045	114	.0003	8	.0240	610	.0210	533	.0060	152
3550	.0035	89	.0050	127	.0003	8	.0240	610	.0220	559	.0060	152
STANDARD CHART AS LARGE WIRE: FOR WIRE DIAMETERS .0030" THROUGH .0160"											SUGGESTED WD	
TS	H	BL	D	T(30°38°)	T(45°)	W						
Units	in.	μ	in.	μ	in.	μ	in.	μ	in.	μ	in.	μ
Tolerance	±.0005	±13	±.0005	±13	-.0001	-2.5	±.0010	±25	±.0010	±25	±.0010	±25
4560	.0045	114	.0060	152	.0006	15	.0340	864	.0310	787	.0075	191
6008	.0060	152	.0080	203	.0008	20	.0390	991	.0340	864	.0100	254
7510	.0075	191	.0100	254	.0010	25	.0450	1143	.0410	1041	.0125	318
0912	.0090	229	.0120	305	.0012	30	.0520	1321	.0490	1245	.0150	381
Tolerance	±.0005	±13	±.0010	±25	±.0002	±5	±.0010	±25	±.0010	±25	±.0010	±25
01014	.0105	267	.0140	356	.0014	36	.0650	1651	.0540	1372	.0175	445
01215	.0120	305	.0150	381	.0016	41	.0680	1727	.0560	1422	.0200	508
01518	.0150	381	.0180	457	.0020	51	.0720	1829	.0640	1626	.0250	635
01820	.0180	457	.0200	508	.0024	61	.0900	2286	.0800	2032	.0300	762
02122	.0210	533	.0220	559	.0028	71	.0980	2489	.0820	2083	.0350	889
02424	.0240	610	.0240	610	.0032	81	.1100	2794	.0930	2362	.0400	1016

*Other sizes available upon request *All dimensions and tolerances are for reference only
TOOL SIZE=TS , WIRE DIAMETER =WD, "T" To be determined according to the size of FR and BR and Hole Bore Length