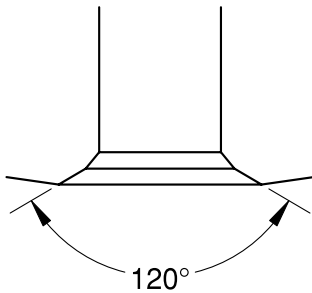


The 1551 series allows the user to specify all dimensions of the capillary within the part number and should be used when an existing catalog series will not meet the requirements of an application. This series comes standard with a 90° double inside chamfer, but may be specified with a 120° or other chamfer angles. The 1551 series can be designed for virtually any thermosonic wire bonding application.

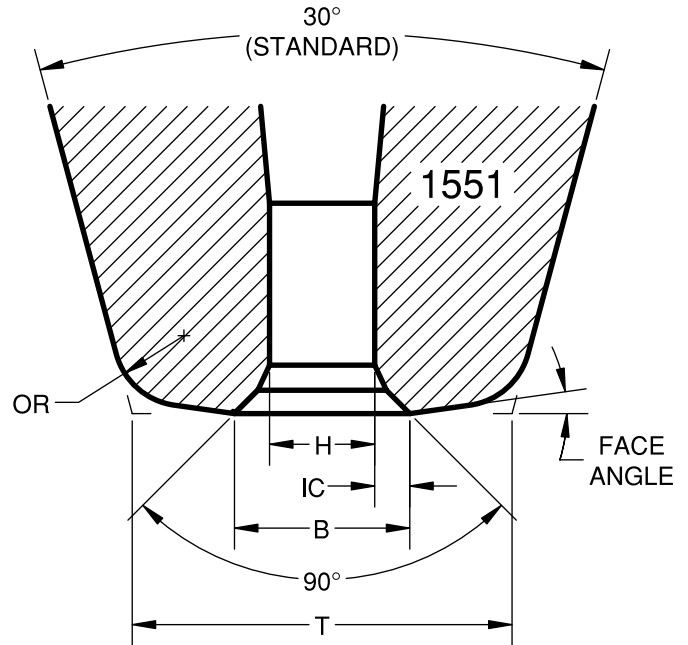


For 120° IC angle, specify "x120D" in part number. Other angle options also apply.

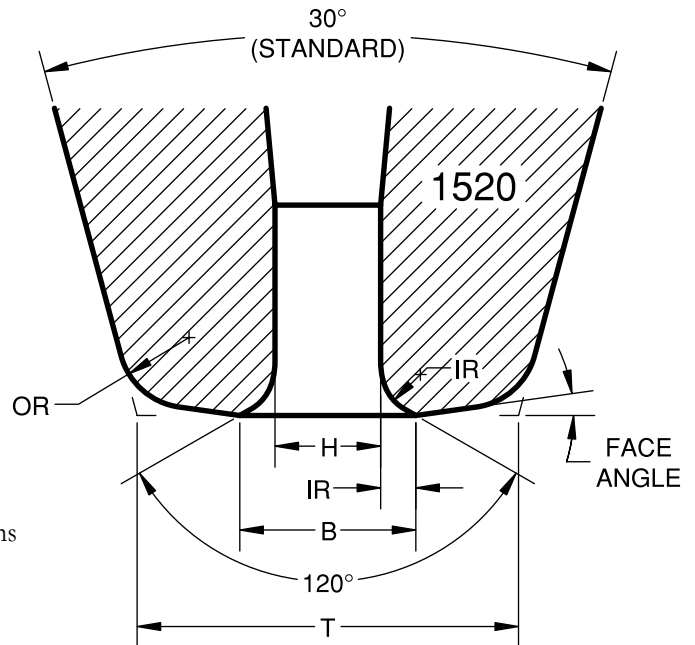
For single IC angle, specify as "1553" series. Standard angle is 90° unless otherwise specified.

Example:

- 1551-15-437GM-60(3x120D-8D-10)
- 1551-18-437GM-80(3x70D-8D-15)
- 1553-17-375GM-55(4x50D-4D-12)



The 1520 series also allows the user to specify all dimensions of the capillary but is designed with a standard 120° full radiused inside chamfer. This design is optimized for use in high-speed automated bonders and provides improved looping and wire control. The 1520 series helps to reduce sagging and wavy wire problems making the 1520 ideal for long loop and low loop bonding. When equipped with an angle bottleneck modification, this tool is an industry standard for fine pitch bonding applications.



Specify: Series - H - Length+Finsh - T(IC - Face Angle - OR)Options

Examples:

- 1551-18-437GM-60(3-8D-10)20D
- 1520-18-437GM-60(3-8D-10)
- 1551-18-437GM-60(3-F-10)20D-AB10x12-BLIC

Notes:

- A flat face 1551 or 1520 may be specified by a "-F" or by the actual numerical value in the part number.
- A mathematical relationship exists between the various dimensions at the capillary tip. When designing a part number or when simply changing the cone angle, you may wish to contact a Gaiser Tool Co. Sales Engineer.
- If a radiused inside chamfer is desired in a 90° IC 1551, specify "-BLIC" at the end of the part number.
- If a radiused inside chamfer is desired in a 120° IC 1551, use the 1520 series.
- For the 1553 series, a radiused inside chamfer is not available.

The chart below represents several example part numbers for a variety of pitches and wire diameters. These capillaries are useful for small ball, medium to fine pitch applications.

PITCH in./ μ m	WIRE DIAMETER in./ μ m	PART NUMBER
.006/150 to .007/170	.0009/23 to .0010/25	1551-13-437GM-70(3-F-25)20D
		1551-13-437GM-70(2.5-8D-15)20D
		1551-15-437GM-70(3.5-8D-15)20D
		1551-13-437GM-65(3.5-8D-15)20D
	.0010/25	1551-15-437GM-65(3.5-8D-15)20D
		1551-15-437GM-65(3.5-F-25)20D
		1551-15-437GM-65(4-8D-15)20D
	.0012/30 to .0013/33	1551-18-437GM-65(4-8D-15)20D
.005/125 to .006/150	.0009/23 to .0010/25	1551-13-437GM-60(3-F-20)20D
		1551-13-437GM-59(3-8D-15)20D
		1551-13-437GM-59(4-8D-15)20D
	.0010/25	1551-15-437GM-59(4-8D-15)20D
		1551-15-437GM-59(4-8D-15)20D-AB10x10
	.0011/28 to .0012/30	1551-17-437GM-59(3.5-8D-15)20D
		1551-17-437GM-59(3.5-8D-15)20D-AB10x10
	.0012/30 to .0013/33	1551-18-437GM-59(4-8D-15)20D
1551-18-437GM-59(4-8D-15)20D-AB10x10		
.0043/110 to .005/125	.0009/23 to .0010/25	1551-13-437GM-55(3-F-20)20D
		1551-13-437GM-55(3-8D-15)20D
		1551-13-437GM-55(4-8D-15)20D
	.0010/25	1551-15-437GM-55(4-8D-15)20D
		1551-15-437GM-55(4-8D-15)20D-AB10x10
	.0011/28 to .0012/30	1551-17-437GM-55(3.5-8D-15)20D
		1551-17-437GM-55(3.5-8D-15)20D-AB10x10
	.0012/30 to .0013/33	1551-18-437GM-55(4-8D-15)20D
1551-18-437GM-55(4-8D-15)20D-AB10x10		
.004/100	.0010/25	1551-13-437GM-49(3-F-17)20D
		1551-13-437GM-50(3-8D-15)20D
		1551-15-437GM-50(3-8D-15)20D
		1551-15-437GM-50(3.5-8D-15)20D
		1551-15-437GM-50(3.5-8D-15)20D-AB10x10
	.0012/30 to .0013/33	1551-17-437GM-50(3.5-8D-15)20D
		1551-18-437GM-50(4-8D-15)20D
		1551-18-437GM-50(4-8D-15)20D-AB10x10