

MTX Blades

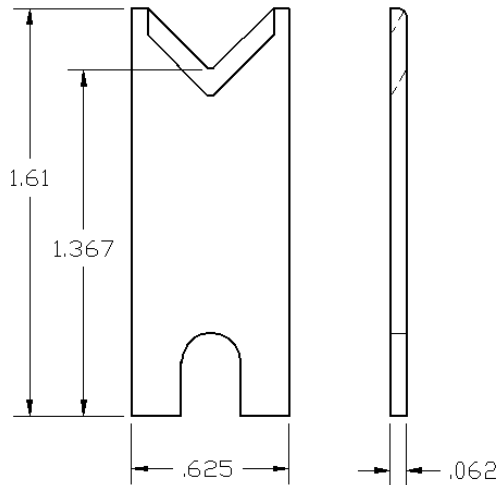
REV 17 01/05/2016

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Dimensions on blade sketches are in inches.

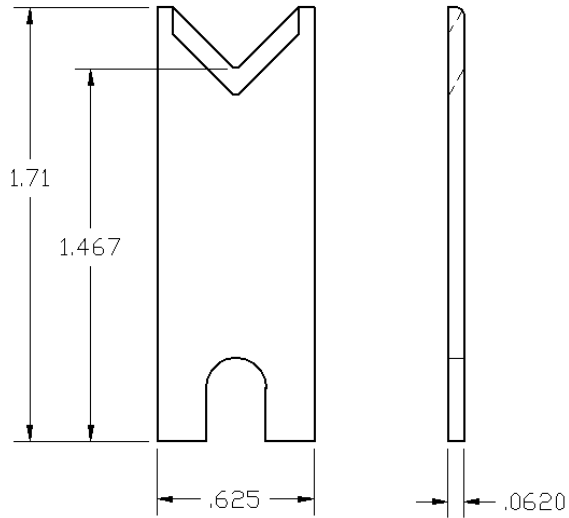
Wire cut off blades



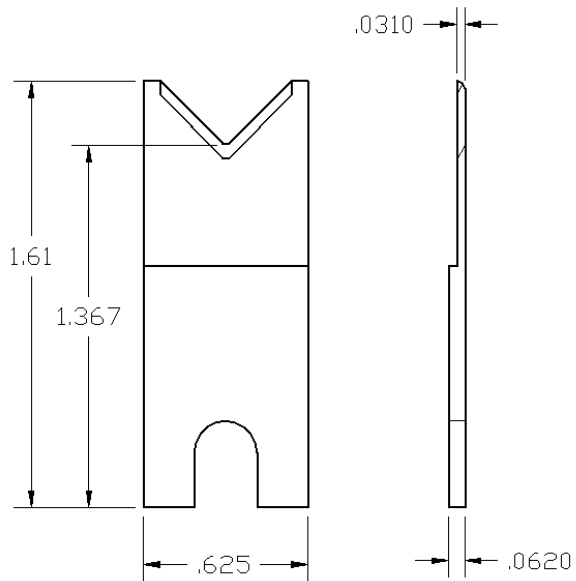
138773 Wire cut off blade, this is the one in the middle. This is the standard blade. TiN coating.

M9-138773 Wire cut off blade, this is the one in the middle. This blade is made from a harder type of steel so it has a longer life than the 138773. TiN coating.

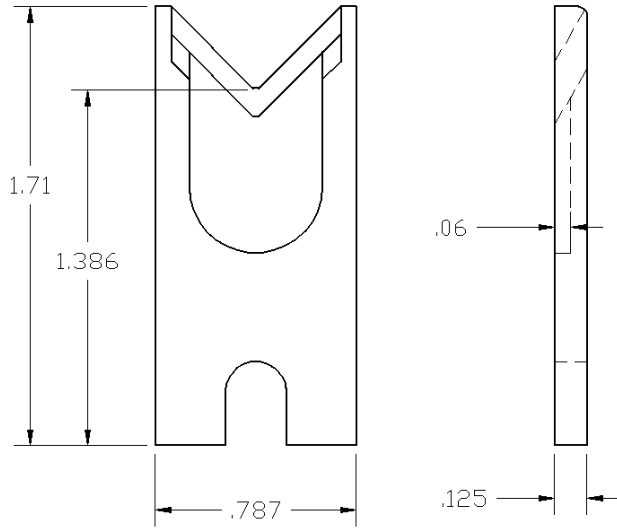
M9-138773-BLD Wire cut off blade, this is the one in the middle. This blade is made from a harder type of steel and TiCN coating so it has a longer life than the M9-138773.



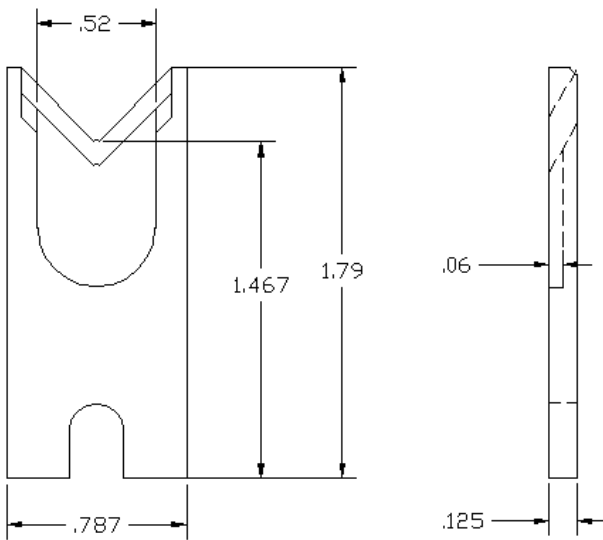
141059 Wire cut off blade, this is the one in the middle. This is for a large diameter cable machine.



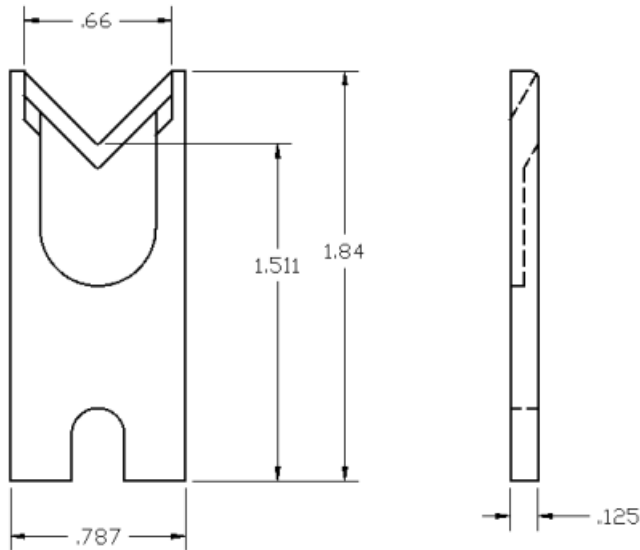
141057 Wire cut off blade, this is the one in the middle. Thin section blade. This type of blade is generally used for cutting ignition wire.



142562 Wire cut off blade, this is the one in the middle. Thick blade for heavy duty blade pack with butt style stripping blades.



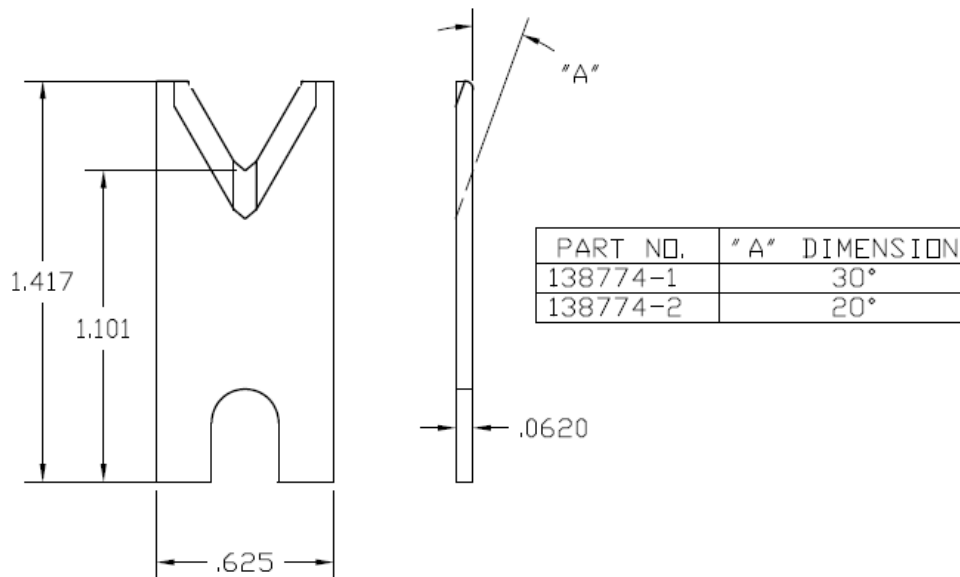
146529 Wire cut off blade, this is the one in the middle.
Thick blade for Kevlar ignition wire tool pack 5-146528-x



148352 Wire cut off blade, this is the one in the middle. Thick blade for heavy duty blade pack with bypass style stripping blades.

Stripping blades

Universal V style stripping blades



138774-1 Strip blade "V" 30 degree, standard. These can be generally used to process wires 26 to 10 AWG.

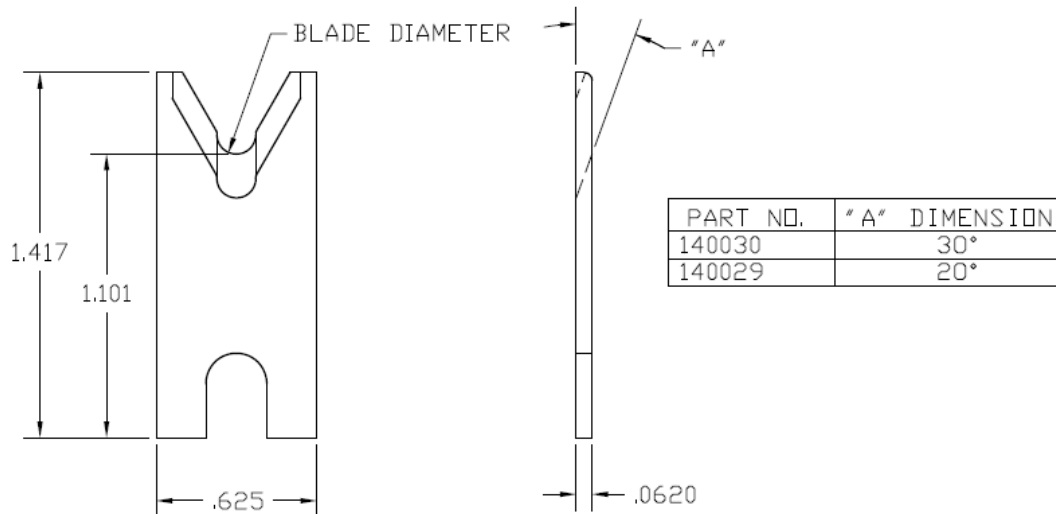
138774-2 Strip blade "V" 20 degree, the 20 degree edge has a steeper angle and may work better for some types of insulation like silicon or Teflon. The downside is that they do not stay sharp as long as 30 degree would.

True radius style stripping blades – programmable style

The sharp edge is ground to a half circle whose radius approximates awg wire size. The entry angle lines intersect the half circle at the quadrant points. This type of blade, when closed, presents a true circle profile.

Advantages: this type of blade is excellent for precise and clean jacket removal because it combines the scissor-like shearing action of the by-pass blade with the exact hole profile matching a conductor gauge. Excellent for thin wall cross-link PVC and most rubbery or elastic insulations (thin or thick wall).

Disadvantages: shut height cannot be modified to process adjacent wire sizes. Off center wire condition has to be considered when choosing blade size.



140030-xxx Strip blade, radius style 30 degree, the dash number is the diameter of the hole in the blade in inches. Example -028 is .028 inches

Dash #	millimeters				
-020	0.508	-112	2.845	-300	7.620
-024	0.610	-118	2.997	-320	8.128
-032	0.813	-125	3.175	-340	8.636
-039	0.991	-130	3.302	-360	9.144
-043	1.092	-140	3.556	-380	9.652
-047	1.194	-152	3.861	-400	10.160
-055	1.397	-160	4.064	-420	10.668
-067	1.702	-175	4.445		
-070	1.753	-200	5.080		
-078	1.829	-220	5.588		
-088	2.235	-240	6.096		
-090	2.286	-260	6.604		
-102	2.591	-280	7.112		

140029-xxx Strip blade, radius style 20 degree. The 20 degree edge has a steeper angle and may work better for some types of insulation like silicon or Teflon. The downside is that they do not stay sharp as long as 30 degree would.

Dash #	millimeters				
-020	0.508	-088	2.235	-240	6.096
-024	0.610	-090	2.286	-260	6.604
-028	0.711	-102	2.591	-280	7.112
-032	0.813	-112	2.845	-300	7.620
-039	0.991	-118	2.997	-320	8.128
-043	1.092	-125	3.175	-340	8.636
-047	1.194	-130	3.302	-360	9.144
-052	1.321	-140	3.556	-380	9.652
-055	1.397	-152	3.861	-400	10.160
-062	1.575	-160	4.064	-420	10.668
-067	1.702	-175	4.445		
-070	1.753	-200	5.080		
-078	1.829	-220	5.588		

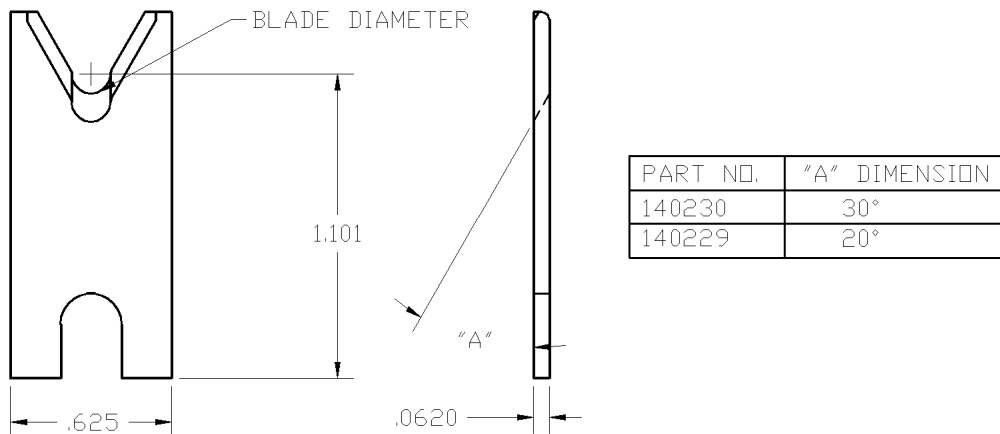
True radius style stripping blades – fixed style

Only use this type of blade when using radius wire guides part number M1-139973-x

The sharp edge is ground to a half circle whose radius approximates awg wire size. The entry angle lines intersect the half circle at the quadrant points. This type of blade, when closed, presents a true circle profile.

Advantages: this type of blade is excellent for precise and clean jacket removal because it combines the scissor-like shearing action of the by-pass blade with the exact hole profile matching a conductor gauge. Excellent for thin wall cross-link PVC and most rubbery or elastic insulations (thin or thick wall).

Disadvantages: shut height cannot be modified to process adjacent wire sizes. Off center wire condition has to be considered when choosing blade size.



140230-xxx Strip blade, radius style 30 degree, the dash number is the diameter of the hole in the blade in inches. Example -028 is .028 inches

Dash #	millimeters				
-020	0.508	-112	2.845	-260	6.604
-032	0.813	-118	2.997	-280	7.112
-039	0.991	-125	3.175	-300	7.620
-047	1.194	-130	3.302	-320	8.128
-055	1.397	-140	3.556	-340	8.636
-067	1.702	-152	3.861	-360	9.144
-070	1.753	-160	4.064	-380	9.652
-078	1.829	-175	4.445	-400	10.160
-088	2.235	-200	5.080	-420	10.668
-090	2.286	-220	5.588		
-102	2.591	-240	6.096		

140229-xxx Strip blade, radius style 20 degree. The 20 degree edge has a steeper angle and may work better for some types of insulation like silicon or Teflon. The downside is that they do not stay sharp as long as 30 degree would.

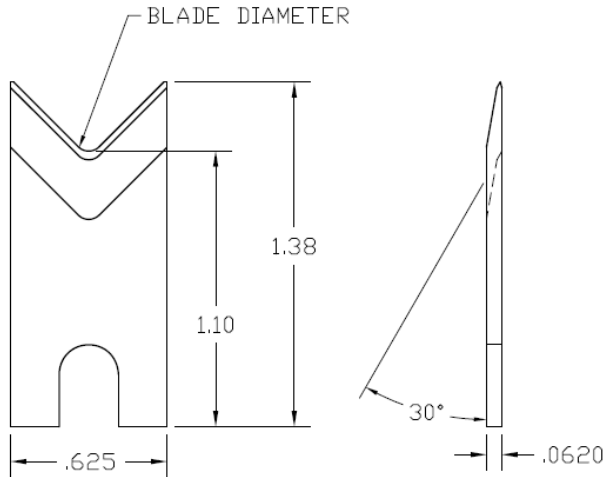
Dash #	millimeters				
-020	0.508	-112	2.845	-260	6.604
-032	0.813	-118	2.997	-280	7.112
-039	0.991	-125	3.175	-300	7.620
-047	1.194	-130	3.302	-320	8.128
-055	1.397	-140	3.556	-340	8.636
-067	1.702	-152	3.861	-360	9.144
-070	1.753	-160	4.064	-380	9.652
-078	1.829	-175	4.445	-400	10.160
-088	2.235	-200	5.080	-420	10.668
-090	2.286	-220	5.588		
-102	2.591	-240	6.096		

Universal tangent radius style stripping blades

The sharp edge is ground to an arc whose radius approximates awg wire size. The entry angle lines meet the arc at a tangent point. This type of blade, when closed, presents a diamond shaped edge profile.

Advantages: by adjusting cutter head shut height, (if insulation material and wall thickness allow), you can process adjacent wire extrusions.

Disadvantages: inadequate for processing thin wall and/or hard insulations such as cross-link or fiberglass jackets.

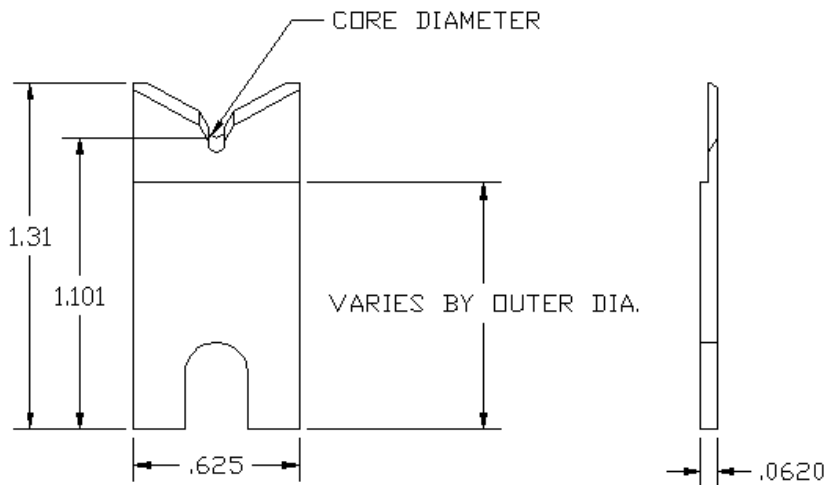


123238-x Strip blade, tangent radius style 30 degree

Dash #	Diameter inches (millimeters)				
-1	0.008 (0.2)	-3	0.059 (1.5)	-6	0.157 (4.0)
-7	0.020 (0.5)	-4	0.079 (2.0)		
-9	0.028(0.7)	-8	0.110 (2.8)		
-2	0.039 (1.0)	-5	0.118 (3.0)		

Ignition cable, wide entry angle stripping blades

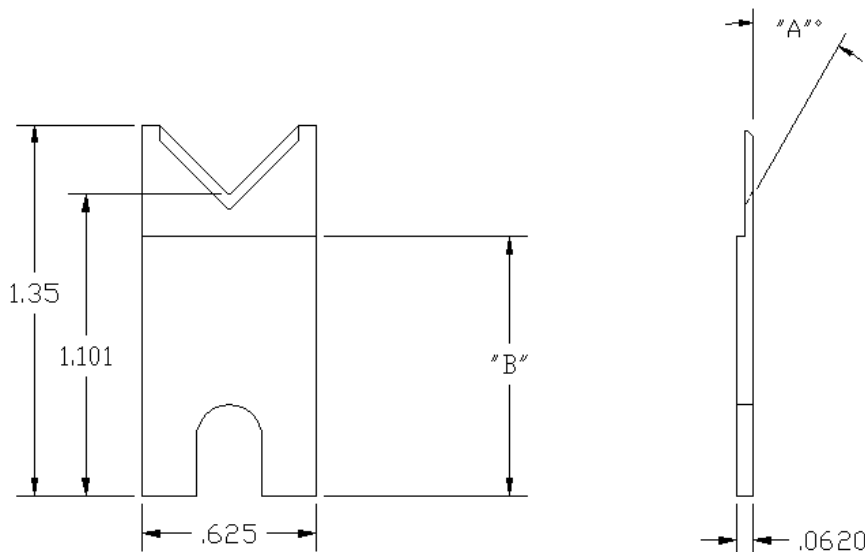
The sharp edge is ground at an angle that results in a “V” opening above 90 degrees. Characteristics: wide angle is not as effective for gathering wire towards the opening radius. This type works well for gathering thick, soft insulations. (such as ignition wire)



141025-x Strip blade, ignition wire.

Part number	Outer Diameter	Inner Diameter
141025-5	.197 (5.0)	.067 (1.70)
141025-10	.273 (6.9)	.055 (1.40)
141025-13	.273 (6.9)	.067 (1.70)

141025-11	.275 (7.0)	.082 (2.08)
141025-6	.276 (7.0)	.106 (2.69)
141025-9	.292 (7.4)	.082 (2.08)
141025-12	.305 (7.7)	.082 (2.08)
141025-3	.311 (7.9)	.106 (2.69)
141025-14	.314 (8.0)	.067 (1.70)
141025-4	.314 (8.0)	.082 (2.08)
141025-1	.335 (8.5)	.067 (1.70)
141025-7	.399 (10.1)	.067 (1.70)
141025-8	.400 (10.2)	.090 (2.29)
141025-2	.425 (10.8)	.067 (1.70)



123958-x Strip blade, ignition wire, universal V style. The maximum diameter of wire that can be used with this blade is "B" * 2 + the inner core diameter.

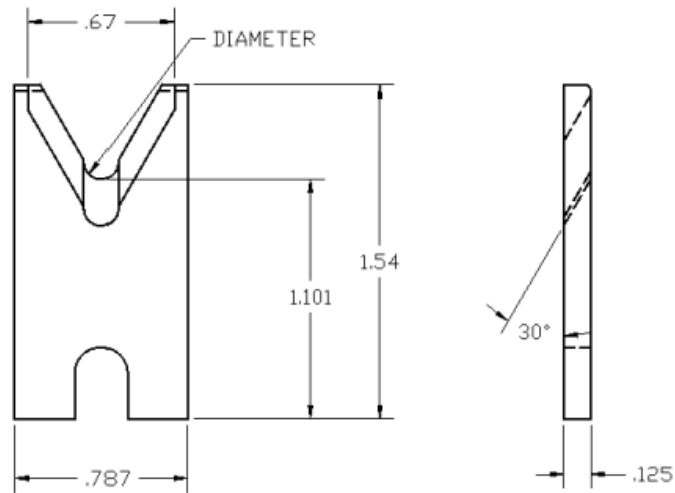
Part number	"B"	"A" Degrees
123958-1	.302 (7.7)	30
123958-2	.302 (7.7)	40

True radius, heavy duty, style stripping blades – programmable style

The sharp edge is ground to a half circle whose radius approximates awg wire size. The entry angle lines intersect the half circle at the quadrant points. This type of blade, when closed, presents a true circle profile.

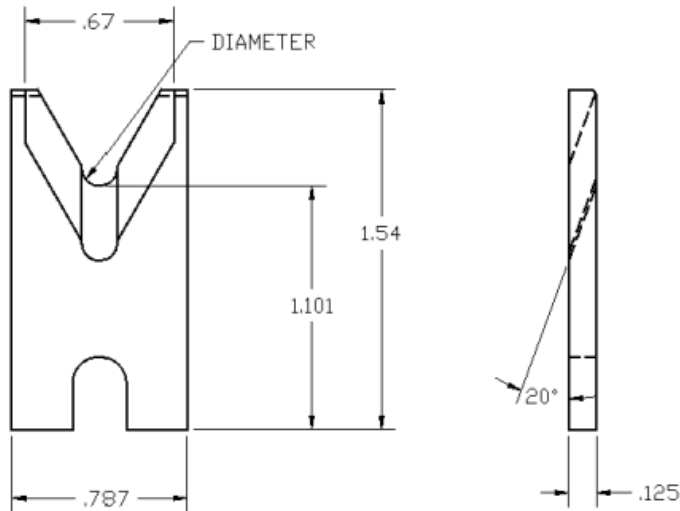
Advantages: this type of blade is excellent for precise and clean jacket removal because it combines the scissor-like shearing action of the by-pass blade with the exact hole profile matching a conductor gauge. Excellent for thin wall cross-link PVC and most rubbery or elastic insulations (thin or thick wall).

Disadvantages: shut height cannot be modified to process adjacent wire sizes. Off center wire condition has to be considered when choosing blade size.



148347-xxx Strip blade, radius style 30 degree, the dash number is the diameter of the hole in the blade in inches. Example -028 is .028 inches

Dash #	millimeters				
-020	0.508	-112	2.845	-280	7.112
-024	0.610	-118	2.997	-300	7.620
-032	0.813	-125	3.175	-320	8.128
-039	0.991	-130	3.302	-340	8.636
-043	1.092	-140	3.556	-360	9.144
-047	1.194	-152	3.861	-380	9.652
-055	1.397	-160	4.064	-400	10.160
-067	1.702	-175	4.445	-420	10.668
-070	1.753	-185	4.699		
-078	1.829	-200	5.080		
-088	2.235	-220	5.588		
-090	2.286	-240	6.096		
-102	2.591	-260	6.604		



148346-xxx Strip blade, radius style 20 degree. The 20 degree edge has a steeper angle and may work better for some types of insulation like silicon or Teflon. The downside is that they do not stay sharp as long as 30 degree would.

Dash # millimeters

-020	0.508	-112	2.845	-280	7.112
-024	0.610	-118	2.997	-300	7.620
-032	0.813	-125	3.175	-320	8.128
-039	0.991	-130	3.302	-340	8.636
-043	1.092	-140	3.556	-360	9.144
-047	1.194	-152	3.861	-380	9.652
-055	1.397	-160	4.064	-400	10.160
-067	1.702	-175	4.445	-420	10.668
-070	1.753	-185	4.699		
-078	1.829	-200	5.080		
-088	2.235	-220	5.588		
-090	2.286	-240	6.096		
-102	2.591	-260	6.604		

Collinear stripping blades

The sharp edge is ground to a half circle whose radius approximates awg wire size. Shearing edge is ground to a straight edge. This type of blade, when closed to shut height, forms a perfect circle profile.

Advantages: this type of blade is excellent for precise and clean jacket removal because it exactly matches conductor gauge. Excellent for thin-wall cross-link PVC and most applications where precise jacket removal around the conductor is required, especially with layered coverings such as fiber over plastic, plastic over shields, etc.

Disadvantages: shut height cannot be modified to process adjacent wire sizes. Off-center wire condition has to be considered when choosing blade size.

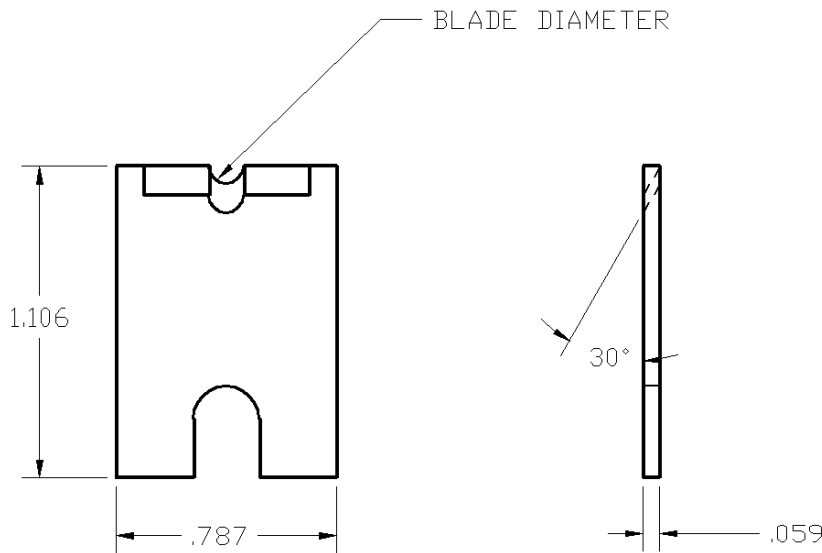
Choosing the correct part number

When choosing the correct size, the blade diameter chosen should be 0.1mm to 0.15mm larger than the measured conductor size.

If Titanium Nitride coating is desired, add "TC" to the end of the part number.

Example 139972-1 = 0.4mm Diameter non-coated
 139972-1 TC = 0.4mm Diameter Titanium Coated

**These blades must be used with wire guides.
 (See part number 139973)**



139972-x Strip blade, collinear (butt style)

Dash #	Size	Dash #	Size	Dash #	Size
-1	0.016 (0.4)	-31	0.134 (3.4)	-61	0.252 (6.4)
-2	0.020 (0.5)	-32	0.138 (3.5)	-62	0.256 (6.5)
-3	0.024 (0.6)	-33	0.142 (3.6)	-63	0.260 (6.6)
-4	0.028 (0.7)	-34	0.146 (3.7)	-64	0.264 (6.7)
-5	0.031 (0.8)	-35	0.150 (3.8)	-65	0.268 (6.8)
-6	0.035 (0.9)	-36	0.154 (3.9)	-66	0.272 (6.9)
-7	0.039 (1.0)	-37	0.158 (4.0)	-67	0.276 (7.0)
-8	0.043 (1.1)	-38	0.161 (4.1)	-68	0.280 (7.1)
-9	0.047 (1.2)	-39	0.165 (4.2)	-69	0.283 (7.2)
-10	0.051 (1.3)	-40	0.169 (4.3)	-70	0.287 (7.3)
-11	0.055 (1.4)	-41	0.173 (4.4)	-71	0.291 (7.4)
-12	0.059 (1.5)	-42	0.177 (4.5)	-72	0.295 (7.5)
-13	0.063 (1.6)	-43	0.181 (4.6)	-73	0.299 (7.6)
-14	0.067 (1.7)	-44	0.185 (4.7)	-74	0.303 (7.7)
-15	0.071 (1.8)	-45	0.189 (4.8)	-75	0.307 (7.8)
-16	0.075 (1.9)	-46	0.193 (4.9)	-76	0.311 (7.9)
-17	0.079 (2.0)	-47	0.197 (5.0)	-83	0.315 (8.0)
-18	0.083 (2.1)	-48	0.201 (5.1)	-77	0.319 (8.1)

-19	0.087 (2.2)	-49	0.205 (5.2)	-78	0.323 (8.2)
-20	0.091 (2.3)	-50	0.209 (5.3)	-84	0.327 (8.3)
-21	0.094 (2.4)	-51	0.213 (5.4)	-85	0.331 (8.4)
-22	0.098 (2.5)	-52	0.217 (5.5)	-82	0.339 (8.6)
-23	0.102 (2.6)	-53	0.220 (5.6)	-81	0.346 (8.8)
-24	0.106 (2.7)	-54	0.224 (5.7)	-79	0.354 (9.0)
-25	0.110 (2.8)	-55	0.228 (5.8)	-86	0.370 (9.4)
-26	0.114 (2.9)	-56	0.232 (5.9)	-87	0.402 (10.2)
-27	0.117 (3.0)	-57	0.236 (6.0)	-88	0.417 (10.6)
-28	0.122 (3.1)	-58	0.240 (6.1)	-89	0.445 (11.3)
-29	0.126 (3.2)	-59	0.244 (6.2)	-80	0.453 (11.5)
-30	0.130 (3.3)	-60	0.248 (6.3)	-90	0.512 (13.0)

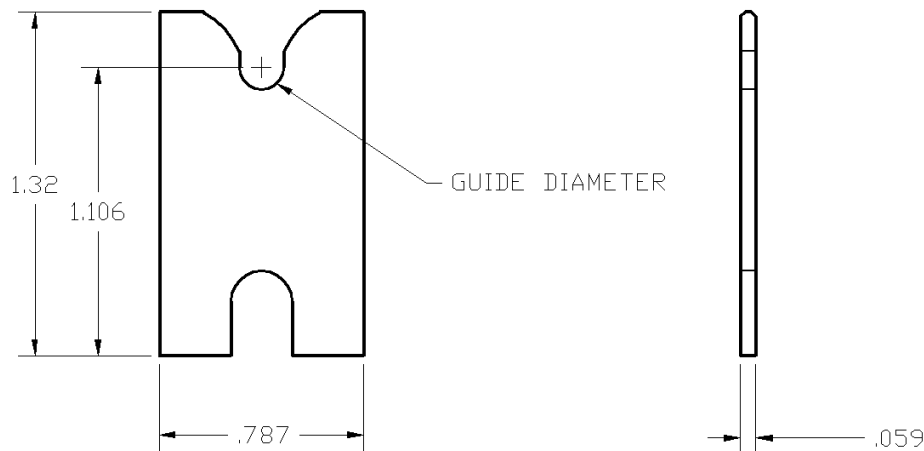
Radius wire guides

Wire guides are used in conjunction with the strip blades to precisely guide the conductor into the strip area of the blade. This will help prevent the conductor from coming into contact with the cutting edges of the strip blades, preventing premature strip blade wear.

Choosing the correct part number

When choosing the correct size, the guide diameter chosen should be 0.00mm to 0.1mm larger than the measured insulation diameter.

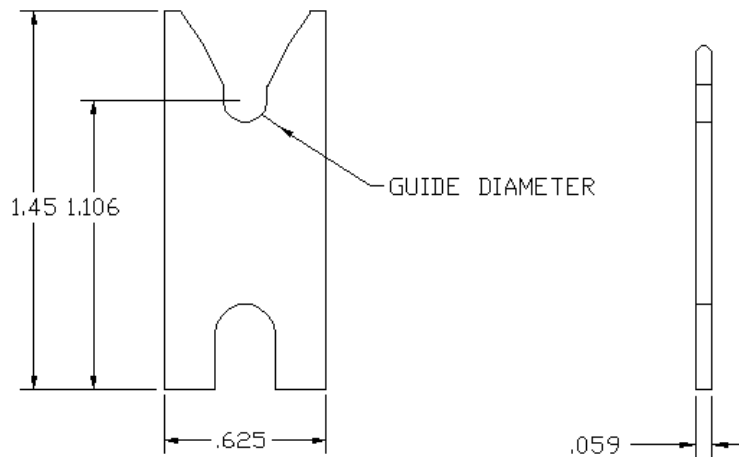
Example 139973-1 = 0.6 Diameter guide.



139973-x Radius wire guide, for use with collinear (butt style) stripping blades 139972-x

Dash #	Size				
-1	0.024 (0.6)	-31	0.146 (3.7)	-61	0.268 (6.8)
-2	0.028 (0.7)	-32	0.150 (3.8)	-86	0.272 (6.9)
-3	0.035 (0.9)	-33	0.154 (3.9)	-62	0.276 (7.0)
-4	0.039 (1.0)	-34	0.158 (4.0)	-63	0.283 (7.2)
-5	0.043 (1.1)	-35	0.161 (4.1)	-64	0.287 (7.3)
-6	0.047 (1.2)	-36	0.165 (4.2)	-65	0.291 (7.4)

-7	0.051 (1.3)	-37	0.169 (4.3)	-66	0.299 (7.6)
-8	0.055 (1.4)	-38	0.173 (4.4)	-67	0.303 (7.7)
-9	0.059 (1.5)	-39	0.177 (4.5)	-68	0.315 (8.0)
-10	0.063 (1.6)	-40	0.181 (4.6)	-81	0.327 (8.3)
-11	0.067 (1.7)	-41	0.185 (4.7)	-77	0.331 (8.4)
-12	0.071 (1.8)	-42	0.189 (4.8)	-69	0.335 (8.5)
-13	0.075 (1.9)	-43	0.193 (4.9)	-78	0.343 (8.7)
-14	0.079 (2.0)	-44	0.197 (5.0)	-70	0.354 (9.0)
-15	0.083 (2.1)	-45	0.201 (5.1)	-76	0.370 (9.4)
-16	0.087 (2.2)	-46	0.205 (5.2)	-71	0.386 (9.8)
-17	0.091 (2.3)	-47	0.209 (5.3)	-72	0.394 (10.0)
-18	0.094 (2.4)	-48	0.213 (5.4)	-79	0.398 (10.1)
-19	0.098 (2.5)	-49	0.217 (5.5)	-82	0.402 (10.2)
-20	0.102 (2.6)	-50	0.220 (5.6)	-88	0.406 (10.3)
-21	0.106 (2.7)	-51	0.224 (5.7)	-73	0.417 (10.6)
-22	0.110 (2.8)	-52	0.228 (5.8)	-83	0.422 (10.7)
-23	0.114 (2.9)	-53	0.232 (5.9)	-75	0.445 (11.3)
-24	0.117 (3.0)	-54	0.236 (6.0)	-80	0.457 (11.6)
-25	0.122 (3.1)	-55	0.240 (6.1)	-87	0.480 (12.2)
-26	0.126 (3.2)	-56	0.244 (6.2)	-85	0.500 (12.7)
-27	0.130 (3.3)	-57	0.248 (6.3)	-74	0.512 (13.0)
-28	0.134 (3.4)	-58	0.256 (6.5)	-84	0.535 (13.6)
-29	0.138 (3.5)	-59	0.260 (6.6)		
-30	0.142 (3.6)	-60	0.264 (6.7)		



M1-139973-x Radius wire guide, for use with radius style stripping blades 140230-xx or 140229-xx

Dash #	Size				
-1	0.024 (0.6)	-16	0.087 (2.2)	-31	0.142 (3.7)

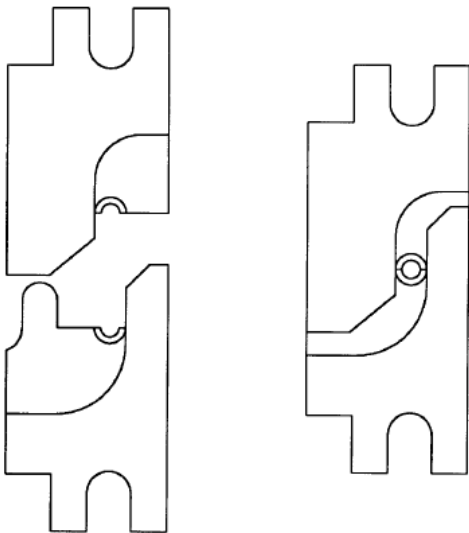
-2	0.028 (0.7)	-17	0.091 (2.3)	-32	0.146 (3.8)
-3	0.047 (0.9)	-18	0.094 (2.4)	-33	0.150 (3.9)
-4	0.039 (1.0)	-19	0.098 (2.5)	-34	0.154 (4.0)
-5	0.043 (1.1)	-20	0.102 (2.6)	-35	0.157 (4.1)
-6	0.047 (1.2)	-21	0.110 (2.7)	-36	0.165 (4.2)
-7	0.051 (1.3)	-22	0.114 (2.8)	-37	0.169 (4.3)
-8	0.055 (1.4)	-23	0.118 (2.9)	-38	0.173 (4.4)
-9	0.059 (1.5)	-24	0.122 (3.0)	-39	0.177 (4.5)
-10	0.063 (1.6)	-25	0.122 (3.1)	-40	0.181 (4.6)
-11	0.067 (1.7)	-26	0.126 (3.2)	-41	0.185 (4.7)
-12	0.071 (1.8)	-27	0.126 (3.3)	-42	0.189 (4.8)
-13	0.075 (1.9)	-28	0.130 (3.4)	-43	0.193 (4.9)
-14	0.079 (2.0)	-29	0.134 (3.5)	-44	0.197 (5.0)
-15	0.083 (2.1)	-30	0.138 (3.6)		

Drilled die type blades

The die-type blade has a fixed shut height. The cutting edge is precisely drilled to an exact radius dimension for the conductor diameter. The insulation wall is contained in a counter-bore drilled around cutting edge.

This type of blade is the most exactly matched blade to the wire specification, giving a very precise insulation removal. This is excellent for removal of extremely thin insulation walls or where the outer jacket is oval shaped, and is also very useful for processing solid conductor insulated wire. Normally this is the blade of choice for sjt, svt, sjo, coaxial cable outer jacket removal, and many round multi-conductor wires.

Die blades are manufactured to the exact wire specifications. Blades can be produced for most any wire. For a specific blade size contact Artos Engineering.



Q-XXX-XXX-XR Die Type Blade