

Artos Tooling

Mechtrix "X" Series Stripping Blades

Used In These
Machines

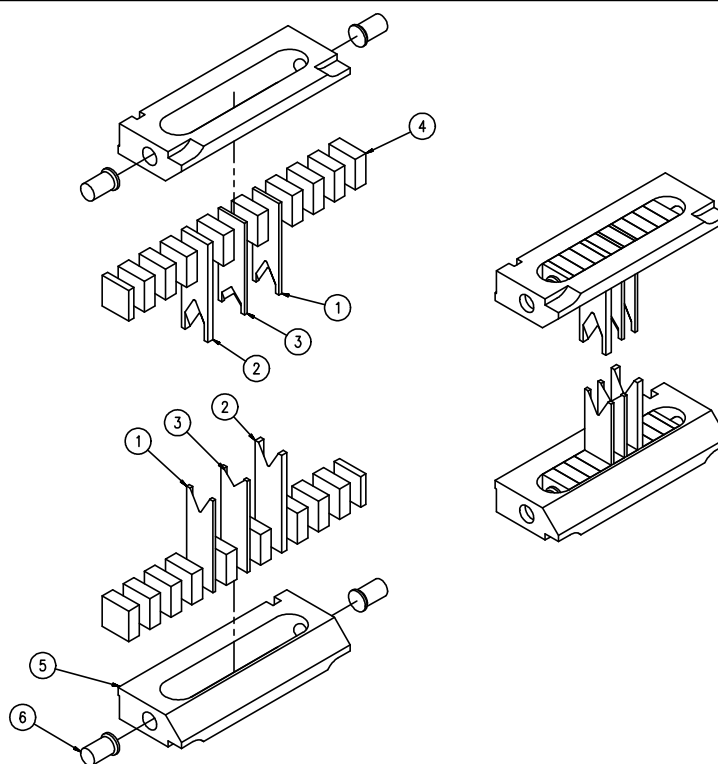
Artos
CS-26
CS-29

The Mechtrix Single "X" Stripping Blades are used when processing one wire at a time on Artos CS-26 or CS-29 Machines. "X" Series Stripping Blades are made to precision standards from a specially selected tool steel to insure optimum performance and blade life and are produced using state-of-the-art manufacturing techniques. "X" Series Stripping Blades have the Mechtrix patented feature of a cutting form which includes a perfectly formed cutting radius. The perfectly formed cutting radius insures optimum cutting of the insulation while the entry angle improves the blade's "gathering" characteristics, thus eliminating the need for wire guides.

"X" Series Stripping Blades are a "V-type" blade and offer several advantages over "die-type" blades. These advantages include adjustability over a range of conductor diameters (rather than being sized for only one conductor diameter as is a die-type blade), superior cutting and gathering ability, and longer blade life.

Please contact Mechtrix for assistance in selecting the appropriate size blade for your particular application.

"X" Series Tooling Setup



No.	Part Description	Qty.	No.	Part Description	Qty.
1	"X" Stripping Blade-Short	2	5	Artos 4" Toolholder	2
2	"X" Stripping Blade-Long	2	6	Mechtrix Endscrew/Washer Assembly	4
3	Cut-off Blade	2	7		
4	Spacers	-	8		

Mechtrix "X" Series Stripping Blades are covered by U.S. Pat. 4,630,406



Mechtrix Corporation • W147 N9461 Held Drive • Menomonee Falls, WI 53051
Tel (262) 255-6555 • Fax (262) 255-2628 • www.mechtrix.com

Artos Tooling

Mechtrix Single "X" Series Stripping Blades



Mechtrix Single "X" Series Stripping Blades

Mechtrix Description	Mechtrix Part Number	Blade Form Diameter		OEM
		(in)	(mm)	Part Number
X-012S Stripping Blade-Short	12765	0.01200	0.30	87330-17
X-012L Stripping Blade-Long	12764			87330-18
X-022S Stripping Blade-Short	12767	0.02200	0.56	87330-15
X-022L Stripping Blade-Long	12766			87330-16
X-034S Stripping Blade-Short (replaces X-32)	14277	0.03400	0.86	87330-1
X-034L Stripping Blade-Long (replaces X-32L)	14278			87330-2
X-042S Stripping Blade-Short	12769	0.04200	1.07	87330-3
X-042L Stripping Blade-Long	12768			87330-4
X-052S Stripping Blade-Short	12771	0.05200	1.32	87330-5
X-052L Stripping Blade-Long	12770			87330-6
X-062S Stripping Blade-Short (replaces X-16)	14279	0.06200	1.57	87330-7
X-062L Stripping Blade-Long (replaces X-16L)	14280			87330-8
X-076S Stripping Blade-Short	12401	0.07600	1.93	87330-9
X-076L Stripping Blade-Long	12402			87330-10
X-096S Stripping Blade-Short (replaces X-332)	14281	0.09600	2.44	87330-11
X-096L Stripping Blade-Long (replaces X-332L)	14282			87330-12
X-112S Stripping Blade-Short	12773	0.11200	2.84	87330-13
X-112L Stripping Blade-Long	12772			87330-14
X-125S Stripping Blade-Short (replaces X-8)	00307	0.12500	3.18	-
X-125L Stripping Blade-Long (replaces X-8L)	00308			-
X-156A Stripping Blade-Short (replaces X-532A)	01994	0.15625	3.97	-
X-156L Stripping Blade-Long (replaces X-532L)	01992			-
X-172A Stripping Blade-Short	14285	0.17200	4.37	87330-19
X-172L Stripping Blade-Long	12774			87330-20
X-187A Stripping Blade-Short (replaces X-316A)	11172	0.18750	4.76	-
X-187L Stripping Blade-Long (replaces X-316L)	04505			-
X-222A Stripping Blade-Short (replaces X-732A)	14286	0.22200	5.64	87330-21
X-222L Stripping Blade-Long (replaces X-732L)	14284			87330-22
X-250A Stripping Blade-Short (replaces X-4A)	05186	0.25000	6.35	-
X-250L Stripping Blade-Long (replaces X-4L)	05185			-

Mechtrix Single "X" Cut-off Blades

Mechtrix Description	Mechtrix Part Number	Blade Form Diameter		OEM
		(in)	(mm)	Part Number
XCL Cut-off Blade	00300	-	-	54492-02
XCLA Cut-off Blade	04722	-	-	54492-01

A set of "X" Series Blades consists of two (2) "X" Strip Blades-Short, two (2) "X" Strip Blades-Long and two (2) Cut-off Blades.

Artos Tooling

Mechtrix "XM" Series Stripping Blades

Used In These Machines

Artos
CS-26
CS-29

"XM" Series Stripping Blades are designated "M" as they incorporate a Mechtrix patented blade design which offers a compound entry angle into the cutting portion of the blade. This design feature, while continuing to offer the advantages of a "V" type design (excellent wire gathering and adjustability) facilitates a higher degree of circumferential cut around a wire's conductor.

"XM" Series Blades are available in a wide range of closely incremented radii sizes and offer improved performance when processing wire which require a cutting configuration which closely matches the wire's conductor diameter. This feature is of greatest benefit when processing insulations which are either very soft (i.e., Neoprene or Silicon), very hard and thin (i.e., Teflon, etc.), or just very thin. "XM" Series Blades will improve difficult processing problems and have, in many cases, facilitated the processing of wires which had previously been impossible to strip automatically.

Please contact Mechtrix for assistance in selecting the appropriate size blade for your particular application.

"XM" Series Tooling Setup

No.	Part Description	Qty.	No.	Part Description	Qty.
1	"XM" Stripping Blade-Short	2	5	Artos 4" Toolholder	2
2	"XM" Stripping Blade-Long	2	6	Mechtrix Endscrew/Washer Assembly	4
3	Cut-off Blade	2	7		
4	Spacers	-	8		

Artos Tooling

Mechtrix "XM" Series Stripping Blades



"XM" Series Stripping Blades

Mechtrix Description	Mechtrix Part Number	Blade Form Diameter		OEM Part Number
		(in)	(mm)	
XM-016 Stripping Blade-Short	01656	0.01600	0.41	-
XM-016L Stripping Blade-Long	01655			-
XM-020 Stripping Blade-Short	01658	0.02000	0.51	-
XM-020L Stripping Blade-Long	01657			-
XM-024 Stripping Blade-Short	01660	0.02400	0.61	-
XM-024L Stripping Blade-Long	01659			-
XM-028 Stripping Blade-Short	01662	0.02800	0.71	-
XM-028L Stripping Blade-Long	01661			-
XM-032 Stripping Blade-Short	01664	0.03200	0.81	-
XM-032L Stripping Blade-Long	01663			-
XM-040 Stripping Blade-Short	01666	0.04000	1.02	-
XM-040L Stripping Blade-Long	01665			-
XM-048 Stripping Blade-Short	01668	0.04800	1.22	-
XM-048L Stripping Blade-Long	01667			-
XM-054 Stripping Blade-Short	01670	0.05400	1.37	-
XM-054L Stripping Blade-Long	01669			-
XM-062 Stripping Blade-Short	01672	0.06200	1.57	-
XM-062L Stripping Blade-Long	01671			-
XM-070 Stripping Blade-Short	01674	0.07000	1.78	-
XM-070L Stripping Blade-Long	01673			-
XM-078 Stripping Blade-Short	01676	0.07800	1.98	-
XM-078L Stripping Blade-Long	01675			-
XM-086 Stripping Blade-Short	01678	0.08600	2.18	-
XM-086L Stripping Blade-Long	01677			-
XM-094 Stripping Blade-Short	01680	0.09400	2.39	-
XM-094L Stripping Blade-Long	01679			-
XM-102 Stripping Blade-Short	01682	0.10200	2.69	-
XM-102L Stripping Blade-Long	01681			-
XM-110 Stripping Blade-Short	01684	0.11000	2.79	-
XM-110L Stripping Blade-Long	01683			-
XM-118 Stripping Blade-Short	01686	0.11800	3.00	-
XM-118L Stripping Blade-Long	01685			-
XM-126 Stripping Blade-Short	01688	0.12600	3.20	-
XM-126L Stripping Blade-Long	01687			-
XM-134 Stripping Blade-Short	01690	0.13400	3.40	-
XM-134L Stripping Blade-Long	01689			-
XM-142 Stripping Blade-Short	01692	0.14200	3.61	-
XM-142L Stripping Blade-Long	01691			-
XM-150 Stripping Blade-Short	01694	0.15000	3.81	-
XM-150L Stripping Blade-Long	01693			-
XM-158 Stripping Blade-Short	01696	0.15800	4.01	-
XM-158L Stripping Blade-Long	01695			-

A set of "XM" Series Blades consists of two (2) "XM" Strip Blades-Short, two (2) "XM" Strip Blades-Long and two (2) Cut-off Blades.

Mechtrix "XM" Series Stripping Blades are covered by U.S. Pat. 4,630,406 and U.S. Pat. 4,577,405



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Artos Tooling

Mechtrix "IDX" Series Stripping Blades

Used In These
Machines

Artos
CS-26
CS-29

Mechtrix "IDX" Series Stripping Blades are designed for use in Artos CS-26 and CS-29 Wire Processing Machines. "IDX" Interlocking Die-Type Stripping Blades are designed to be used with wires having a Measured Insulation Diameter (D) between 0.010" and 0.260" (0.25mm - 6.60mm). "IDX" Series Stripping Blades are made to precision standards from a specially selected tool steel to insure optimum performance and blade life and are produced using state-of-the-art manufacturing techniques. The state-of-the-art manufacturing techniques are combined with patented Mechtrix technology to produce perfect stripping form radii.

"IDX" Series "Die-type" Stripping Blades incorporate several important features. First, because the blades close against each other, the closing dimension of the machine cutterhead is assured as is the formation of the optimum blade hole size for the blade being used. Second, set-up time is minimized because no adjustments (to the machine cutterhead) are required when changing blade sizes. Though "ID" Series Blades are not adjustable, their non-adjustable feature is of significant benefit when processing thin wall insulations, very hard insulations (Teflon, etc.) or wire with multiple layer insulations (fusible link, etc.).

"IDX" Series Blades are available in blade hole size increments of 0.1mm (.004") and require the use of "IDGX" Wire Guides and "IDSX" Insulation Stops. Please contact Mechtrix for assistance in selecting the appropriate size blade for your particular application.

"IDX" Series Tooling Setup

No.	Part Description	Qty.	No.	Part Description	Qty.
1	"IDX" Stripping Blade-Short	2	6	Mechtrix Endscrew/Washer Assembly	4
2	"IDX" Stripping Blade-Long	2	7	"IDGX" Wire Guide-Long	1
3	Cut-off Blade	2	8	"IDSX" Stop-Short	1
4	Spacers	-	9	"IDGX" Wire Guide-Short	1
5	Artos 4" Toolholder	2	10	"IDSX" Stop-Long	1

Artos Tooling

Mechtrix Stripping Blades for 2-Conductor Cables

Used In These Machines

Artos

CS-6
CS-9
CS-10
CS-11
CS-15
CS-18
CS-20
TA-20
CS-21
CS-23
CS-26
CS-27
CS-29
CS-30
CS-33
S-1

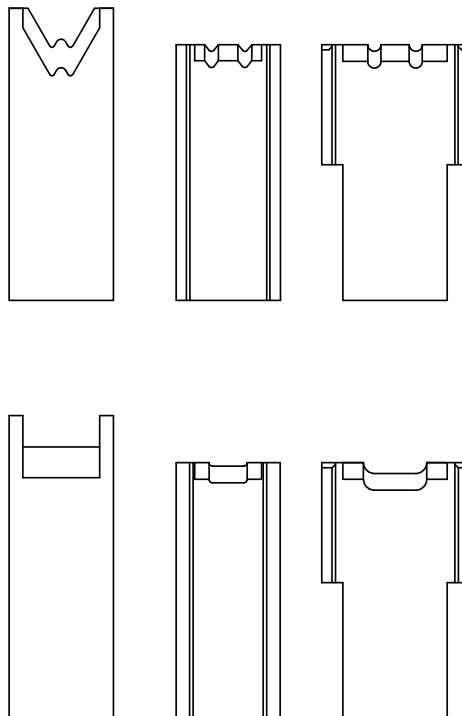
Kut-Rite

MCS (all)
BTS (all)

Mechtrix manufactures both "V" and "Die-Type" Stripping Blades to process flat electrical wire with two (2) parallel conductors (SPT-2, HPN, speaker wire etc.) or for processing two (2) separate wires simultaneously in most wire processing machines manufactured by the Artos Engineering Company.

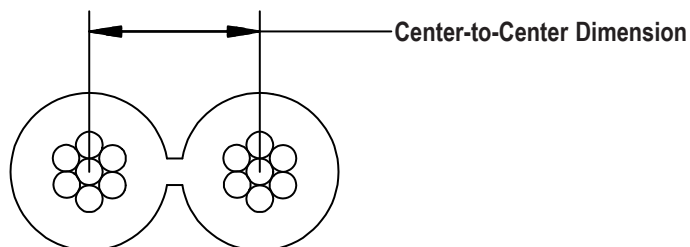
Mechtrix 2-Conductor stripping blades are made to precision standards from a specially selected tool steel to insure optimum performance and blade life and are produced using state-of-the-art manufacturing techniques. Like all Mechtrix Blades these blades are computer designed to insure that the many intersecting angles and radii are optimally suited to the wire being processed. Our precision manufacturing techniques combined with patented cutting form geometry create tools that are optimally suited to our customers specific wire and unique processing requirements. 2-Conductor stripping blades also require the use of "straight cut" cut-off blades for process optimization.

Since many 2-Conductor wires require the ends to be cut and stripped to different lengths, Mechtrix also offers special 2-Conductor stripping blades to accommodate "stagger strip" requirements. (Please note that stagger strip configurations require the use of a pre-slitter).



Mechtrix also offers "Jacket" Stripping Blades for removing the oval shaped outer jacket on 2-Conductor wires with an additional layer of insulation over the primary insulation.

The overwhelming variety and different constructions of 2-Conductor wires makes it difficult to list all of the possible diameter and center-to-center combinations of stripping blades Mechtrix offers to process these wires, so for specific recommendations please contact Mechtrix.



Due to the inherent problems associated with trying to accurately measure the center-to-center dimension of your particular wire, Mechtrix will perform a statistical dimensional analysis free of charge. To obtain an analysis of your wire, please send approximately 3 ft. of wire to Mechtrix. When completed Mechtrix will supply you with a Wire Data Report listing your wire data along with recommended part numbers and prices for all of the tooling required to process your wire.

Mechtrix 2-Conductor Stripping Blades are covered by U.S. Pat. 4,630,406 and U.S. Pat. 5,025,687



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Artos Tooling

Mechtrix Slitting Tools for Multi-Conductor Flat Cables

Used In These Machines

Artos

CS-6
CS-9
CS-10
CS-11
CS-15
CS-18
CS-20
TA-20
CS-21
CS-23
CS-26
CS-27
CS-29
CS-30
CS-33
S-1

Kut-Rite

MCS (all)
BTS (all)

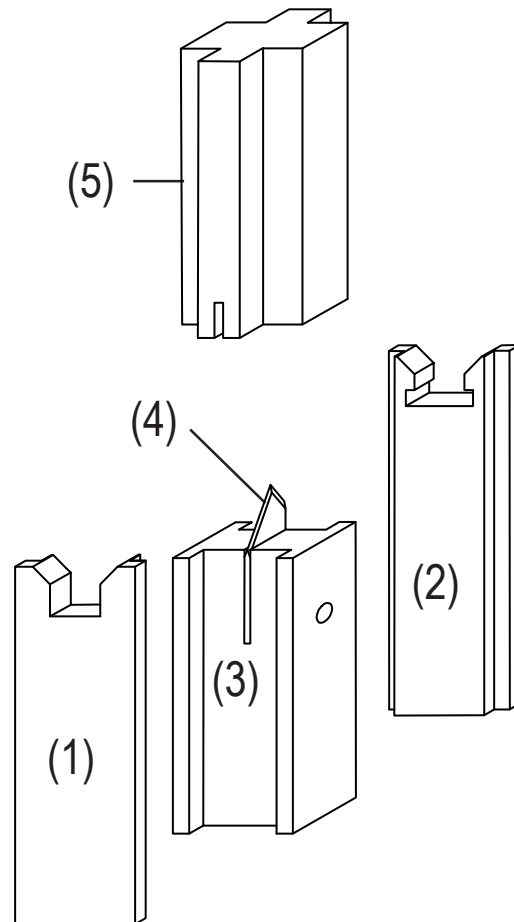
The Mechtrix Slitting Tool System greatly improves the reliability of slitting 2 conductor cables by utilizing Mechtrix patented interlocking tooling design. This concept facilitates greater control over the cable both prior to and during slitting and thus achieves superior results.

All components are made of tool steel which has been hardened and ground to provide long tool life and precise component relationships. The system is a modular concept which allows the user to mix a number of different components together to customize the tooling for a particular cable.

To order slitting tools for a particular cable, please send a wire sample to Mechtrix. Mechtrix will size the cable and provide part numbers and prices.

The components illustrated are for slitting a 2-Conductor cable, slitting tools for 3, 4 and other multi-conductor cables are also available.

The tooling components and the function they perform are listed below:



- (1) **SG-Slitting Guide** is designed to interlock with the SB-Slitting Blade Holder to guide the wire into the proper position for slitting.
- (2) **SGR-Slitting Guide w/Relief** is also designed to interlock with the SB-Slitting Blade Holder to guide the wire into the proper position for slitting. The relief in the bottom of the guide form provides room for the wire to expand after being slit, this reduces the chances of stretching the insulation after it has been slit.
- (3) **SB-Slitting Blade Holder** holds the SK-Slitting knife(s) on a pin without the use of screws, shims, or loose spacers. This system makes replacing slitting knives quick and simple.
- (4) **SK-Slitting Knives** are made out of high quality, heat-treated tool steel which greatly extends their life compared to standard spring steel slitting knives.
- (5) **SP-Slitting Pushers** are designed to push the wire into the slitting knife to a precise depth to insure the most efficient slit possible. The end of the pushers are polished to provide as smooth a surface as possible, allowing the wire to slide easily along their surface during the slitting process.

Mechtrix "Slitting Tools" are covered by U.S. Pat. 5,025,687

Artos Tooling

Mechtrix "PC" Series Stripping Blades for 3-Conductor Power Cords

Used In These Machines

Artos

CS-6
CS-9
CS-10
CS-11
CS-15
CS-18
CS-20
TA-20
CS-21
CS-23
CS-26
CS-27
CS-29
CS-30
CS-33
S-1

Kut-Rite

MCS (all)
BTS (all)

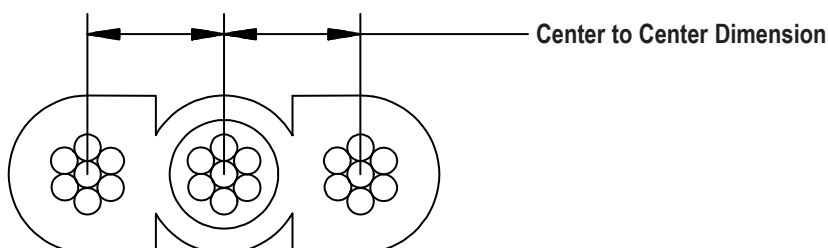
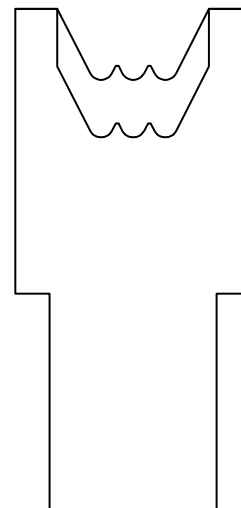
Mechtrix Stripping Blades for Flat Power Cords are truly unique.

Traditionally, SPT or HPN type wires have been processed using stripping blades whose cutting forms have been the same for all three conductors. To optimize process reliability and quality, it is critical that the blade designs recognize that different cutting forms are required to strip the outer conductors than are required to reliably strip the inner (separately insulated) conductor. Only Mechtrix Blades incorporate the cutting form geometries necessary to reliably strip all three conductors simultaneously.

The ability to produce special cutting forms has also enabled Mechtrix to offer blades to process virtually every wire end configuration required. These blades, combined with Mechtrix Accu-Set spacers, have enabled our customers to reliably process stagger strip configurations and difficult wire which were previously impossible to process automatically or relegated to bench or hand operations. (Please note that stagger strip configurations require the use of a pre-slitler).

"PC" Stripping Blades also require the use of "straight cut" cut-off blades for process optimization.

The overwhelming number of combinations and permutations of wire end configurations makes it difficult to list all of the possible diameter and center-to-center combinations of stripping blades Mechtrix offers to process these wires, so for specific recommendations please contact Mechtrix. To obtain detailed information regarding tooling recommended for your requirements, please send Mechtrix a sample of your wire along with a detailed drawing of the required wire end configurations.



Due to the inherent problems associated with trying to accurately measure the center-to-center dimension of your particular wire, Mechtrix will perform a statistical dimensional analysis free of charge. To obtain an analysis of your wire, please send approximately 3 ft. of wire to Mechtrix. When completed Mechtrix will supply you with a Wire Data Report listing your wire data along with recommended part numbers and prices for all of the tooling required to process your wire.

Mechtrix "PC" Series Stripping Blades are covered by U.S. Pat. 4,630,406 and U.S. Pat. 5,025,687



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Artos Tooling

Mechtrix "PC" Series Stripping Blade Configurations

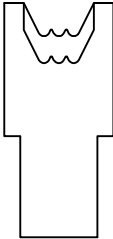
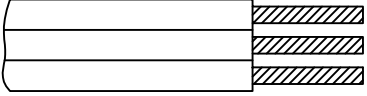
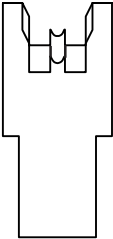
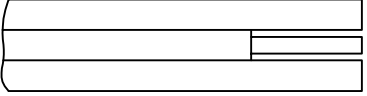
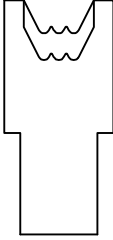
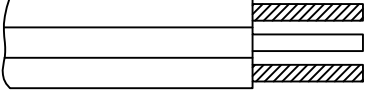
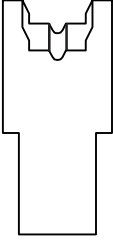
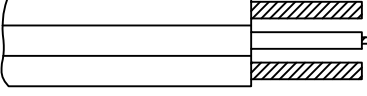
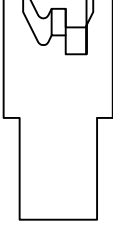
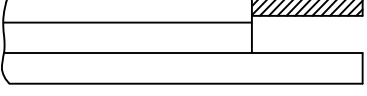
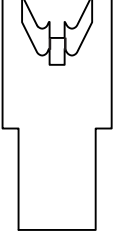
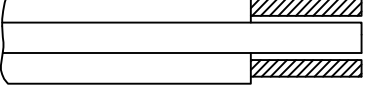
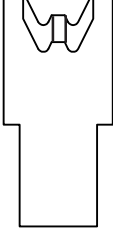
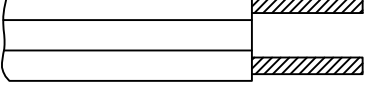
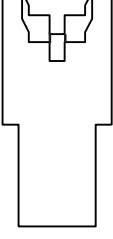
Used In These Machines

Artos

- CS-6
- CS-9
- CS-10
- CS-11
- CS-15
- CS-18
- CS-20
- TA-20
- CS-21
- CS-23
- CS-26
- CS-27
- CS-29
- CS-30
- CS-33
- S-1

Kut-Rite

- MCS (all)
- BTS (all)

 <p>Strips all three conductors</p> 	 <p>De-webs bulk off of center ground</p> 
 <p>Strips outside conductors Strips bulk off green ground insulation</p> 	 <p>Cuts off two outside conductors Strips center ground conductor</p> 
 <p>Strips outside conductor Blunt cuts center Leaves outside conductor</p> 	 <p>Strips outside conductors Leaves center bulk</p> 
 <p>Strips outside conductors Blunt cuts center ground</p> 	 <p>Cuts bulk on outside Leaves center bulk</p> 