

Table of Contents

Cutters:

- Diagonal 4, 5
- Reverse Angle..... 6
- Angle End 6
- Transverse End..... 7
- Anvil 7
- Long Nose 7
- Shear 8
- Strippers..... 8
- Stand-Off..... 9
- Carbide Cutters 17

Pliers:

- Snipe 10
- Long Nose 10
- Flat Nose 11
- Needle Nose..... 11
- Curve Nose 10, 11
- Round Nose..... 12
- Straightening 12
- Forming..... 12
- Speciality 13
- Connector 13
- Plizers..... 16

Tweezers:

- Tweezers (Ergonomic—ESD Safe) 14
- SMD Tweezers 15
- Plizers..... 16

STUSA

- Electronic Tools 18, 19, 20

Connecting with **EDSYN Inc.**

EDSYN

15958 Arminta Street
 Van Nuys, CA 91406-1896

Web site: www.edsyn.com
 Email: info@edsyn.com
 Phone: (818) 989-2324
 Toll Free: (800) 287-8872
 Fax: (818) 997-0895

Credit Cards accepted: MasterCard and Visa
 Copyright © 2006 by EDSYN Inc.

Tool Life Expectancy

Tool attributes that give EDSYN tools longest life:

- High chrome, high carbon alloy steel for bearings and edges. Aircraft grade bearing quality E52100 steel hardened to HRC 65 and then tempered to ideal for intended work.
- Edge angles for ease of cut and edge life (10 choices).
- Longer handles for leverage and pressure distribution.
- Wider bodies for better bearing properties and strength.
- Very hard cut edges for edge life (HRC 65, tempered).
- Stainless Scrivets™ for lubricity, adjustability, cleanliness.
- Stainless adjustable leaf springs welded in place, or “secret” tension springs—optional.

Tools are scientifically inspected and tested at key production stages. Touch tests are performed on tool edges, tip, joints and springs to confirm all functions ideal.

Many years of lab and field testing prove that Swanstrom cutters used within design limits, give well over 1,000,000 clean cuts on common lead material such as .020 tinned copper.

Tool Maintenance:

For better tool life, perform proper easy local maintenance.

- Oil joints regularly. An occasional single drop is wise.
- Oil joint and Scrivet™ before adjustment.
- Protect spring-to-handle weld if adjusting leaf spring.
- Cut only material tool is designed to cut.
- Use proper size tools for parts being cut. Use larger tools for larger and harder parts.
- Keep tools with stops adjusted for type of material cut.
- Keep tools sharp and well serviced. Use EDSYN Tool Service for most perfect recon.

Don'ts:

- Don't force a tight, stiff joint. (oil it)
- Don't cut material for which tool was not designed.
- Don't pull on springs without protecting the weld under the plastic (rotate-bend for more pressure).
- Don't improperly grind. Heat and the wrong touch will quickly damage tool beyond repair, may soften the edges, and void warranty.
- Don't forget Tool Service.



Ergonomic Considerations

Ergonomic tools allow people to work safely and cost effectively. Tools should be selected based on the operator and task to be performed.

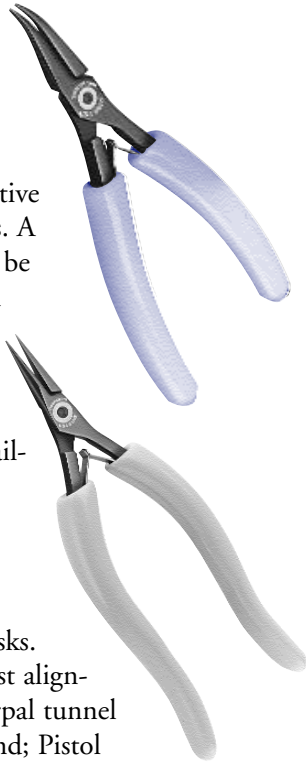
Size, weight and handle form and opening should be comfortable to the employee. Generally, smaller sized tools are more comfortable for smaller hands and larger tools are more effective with larger hands. Swanstrom electronic tools are available in sizes 3 to 7 dependent upon tool type.

Handles

- Traditional Shorts for less repetitive work areas with restricted access. A traditional style handle can also be an operator's preference. Typical width: 2.0"

- Double Ergonomic (-EG) disperse and minimize pressure. Extended handle lengths are available. Typical width: Sizes 4 & 5: 1.75"; Size 6-1.95"; Size 7-2.13"

- Pistol Grip (-EPR or -EPL) are excellent for highly repetitive tasks. They help maintain normal wrist alignment, reducing potential for carpal tunnel and disperse pressure on the hand; Pistol grips further reduce strain and fatigue by allowing all four fingers to be used.



Handle Features

- Handle diameter distributes the pressure over a larger hand surface and eases pick up.
- Double action leaf springs are soft touch and adjustable, minimizing the force and pressure on the hand.
- Static Dissipative Soft Touch™ foam handles distribute hand pressure evenly while protecting sensitive components from electro-static discharge.

Spring Choices Include:

- Double adjustable leaf
- Coils
- Secrets



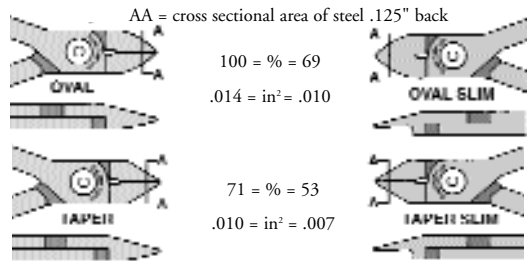
All Handles are ESD Safe (Static Dissipative)

Head, Tip, and Edge Options

The many tool heads, angles and tip shapes, and edges allow tool choices based on arm and hand position to maximize visibility, ergonomics, and economics. Generally a tool with a larger head lasts longer.

Tip Shape

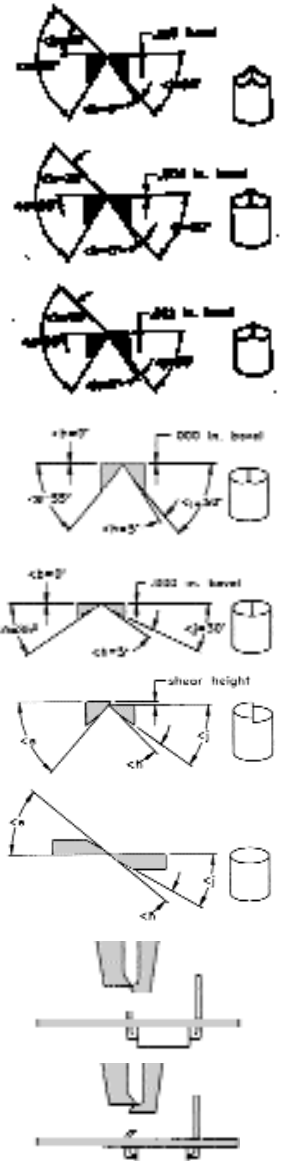
- Oval - the most durable
- Oval Slim - for getting into smaller spaces
- Taper - also for getting into very small spaces
- Taper Slim - most versatile but weaker tips



- Angle end and curved nose cutters - the most task specific.
- Leverage and Tip Control - operator effort minimized by using the shortest jaw length possible for the task.

Edge Type

- Bevel .007" - cuts where pinch or spike is not critical, longest life, most pressure to cut
- Flush .004" - reduces pinch, spike and squeeze pressure
- Full Flush .002" - further reduces pinch, spike, and squeeze
- Super Flush .000" - produces minimal spike and shock transmital, more ergonomic, less squeeze
- Super Flush, Super Sharp .000" - produces least spike, most ergonomic and easiest to squeeze



- Near Shear - leaves a slight deformation and step left on the cut, reduces force required to cut.
- Pure Shear - no spike, small side deformation, easiest cut
- Stand-Off Shear - minimizes shock, leaves no spike and produces consistent "stand off" lead lengths
- Stand-Off Bend/Cut

Abbreviations for Tool Head Descriptions

Anvil	A	Hose Clamp	HC	Shear	S
Bevel	B	High Leverage	HL	Short Nose	SN
Bend Cut	BC	Jaw Relief	JR	Slim	SL
Bypass	BP	Long Nose	LN	Smooth	SM
Concave	CV	Long Slim	LS	Special Radius	SR
Convex	CX	Micro	MI	Step	ST
Curved	C	Mini	M	Stress Relief	STR
Double	D	Near Shear	NS	Submini	SU
Double End	DE	Nipper	N	Super Flush	SF
Extra Long	EL	Oval	Ov	Taper	T
Fine	FN	Oval Slim	OS	Taper Slim	TS
Fine Tip	FT	Relieved	RE	Tip Cut	TC
Flat Nose	FLN	Round	R	Ultra Fine	UF
Flat/Round	F/R	Round Nose	RN	V Notch	V
Flush	F	Scissor	SC	Variable Jaw	VJ
Full Flush	FF	Serrated	SER		

Special radiused edges to meet DOD 2000 Specs are available by adding the suffix SR to the part number.



Cutting Capacities

Gage	in	mm	Part Numbers
32	0.007	0.2	KP185-EG
24	0.020	0.6	KP171-EG, KP171, KP219-EG, KP219, KP223-EG, KP223
22	0.025	0.6	KP170-EG, KP170, KP212-EG, KP212, KP215-EG, KP215, KP218-EG, KP218, KP224-EG, KP224, KP225-EG, KP225, KP482-EG, KP482
20	0.032	0.8	KP202-EG, KP202, KP203-EG, KP203, KP205-EG, KP213-EG, KP213, KP233-EG, KP233, KP234-EG, KP234, KP291, KP402-EG, KP402, KP423-EG, KP423, KP432-EG, KP432, KP483-EG, KP483, KP485-EG, KP485, KP491-EG, KP491, KP492-EG, KP492, KP605-EG, KP605
18	0.040	1.0	KP201-EG, KP201, KP205-EG, KP205, KP405-EG, KP405, KP412-EG, KP412, KP413-EG, KP413, KP414-EG, KP414, KP420-EG, KP420, KP421-EG, KP421, KP422-EG, KP422, KP430-EG, KP430, KP431-EG, KP431, KP435-EG, KP435, KPC15-EG
16	0.050	1.3	KP410-EG, KP410, KP411-EG, KP411, KP415-EG, KP415, KP416-EG, KP416, KP512-EG, KP512, KP513-EG, KP513, KP514-EG, KP514, KP516-EG, KP516, KP520-EG, KP520, KP521-EG, KP521
14	0.060	1.6	KP510-EG, KP510, KP511-EG, KP511, KP515-EG, KP515, KP534-EG, KP534, KP535-EG, KP535, KP612-EG, KP613-EG, KP614-EG, KP616-EG, KP620-EG, KP621-EG
12	0.080	2.0	KP610-EG, KP611-EG, KP615-EG, KPC5-EG, KPC17-EG, KPT5-EG, KPV5-EG, KPV5ESP
11	0.090	2.3	KP700-EG, KP710-EG
9	0.114	2.9	KP350-EG, KP350, KP351-E, KP351
2	0.258	6.6	KPC7-EG, KPT7-EG, KPV7-EG

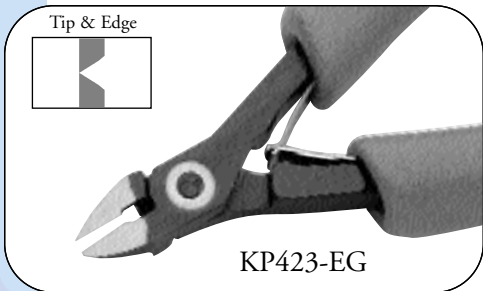
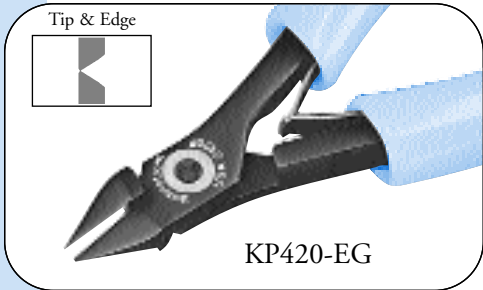
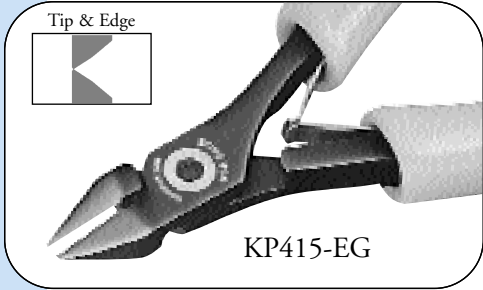
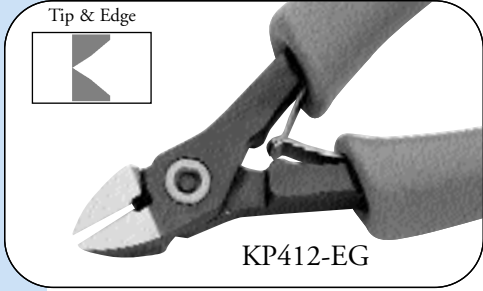
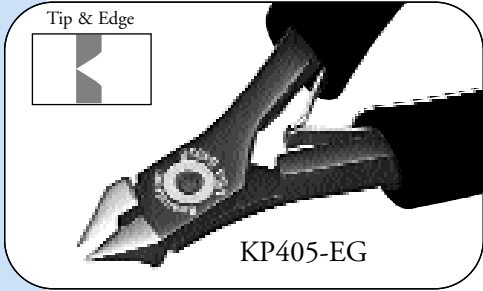
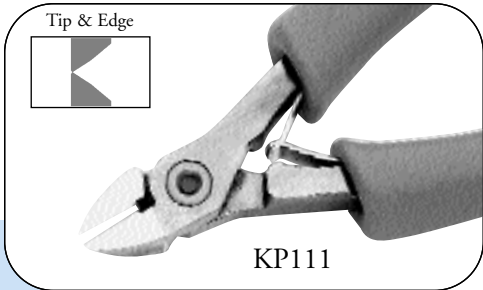


All Serviced Tools Are Returned ESD Safe
(Static Dissipative)



Diagonal Cutters

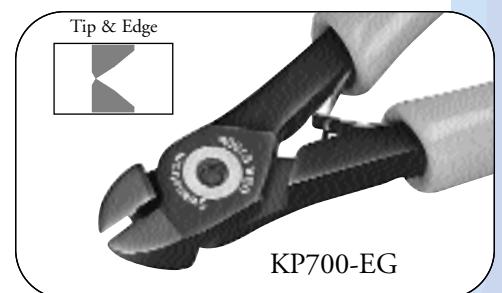
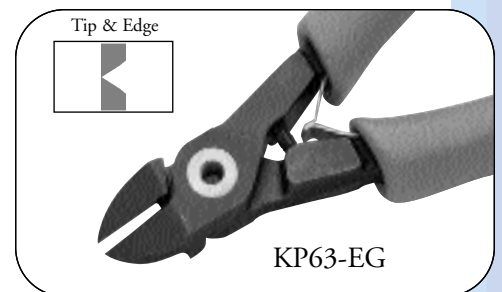
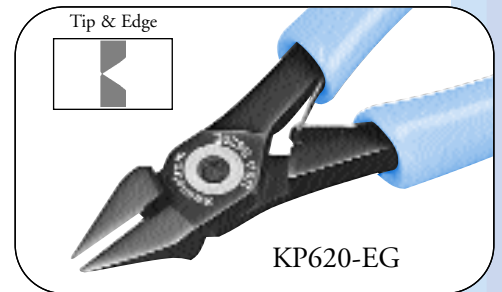
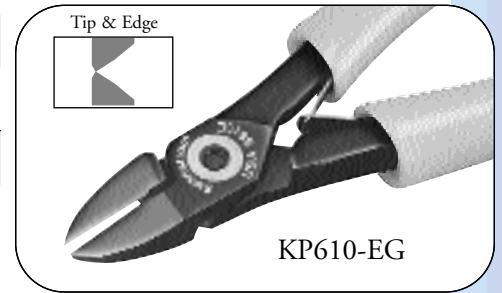
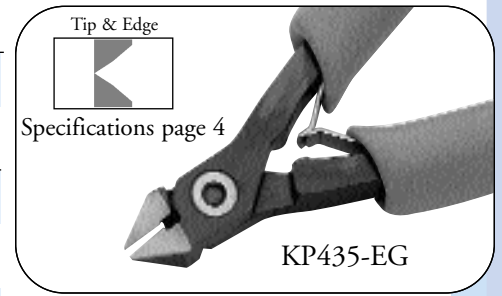
Diagonal Cutters



Tool Numbers	Description		Length edge	Overall Length	Jaw Length	Cutter Width ergo	Tip Thick	Tip		
	short	head								
KP111-EG	KP111	Ov F	.004	in	5.65	4.25	0.53	0.40	0.23	0.03
			.100	mm	144	108	13	10	6	0.80
KP112-EG	KP112	Ov SF	.000	in	5.65	4.25	0.53	0.40	0.23	0.03
			.000	mm	144	108	13	10	6	0.80
KP115-EG	KP115	T F	.004	in	5.65	4.25	0.53	0.40	0.17	0.03
			.100	mm	144	108	13	10	4	0.80
KP116-EG	KP116	T SF	.000	in	5.65	4.25	0.53	0.40	0.17	0.03
			.000	mm	144	108	13	10	4	0.80
KP121-EG	KP121	TS SF	.000	in	5.65	4.25	0.53	0.40	0.17	0.03
			.000	mm	144	108	13	10	4	0.80
KP405-EG	KP405	SN SF	.000	in	5.46	4.61	0.34	0.21	0.25	0.03
			.000	mm	139	117	9	5	6	0.80
KP410-EG	KP410	Ov B	.007	in	5.65	4.80	0.53	0.40	0.23	0.03
			.180	mm	144	122	13	10	6	0.80
KP411-EG	KP411	Ov F	.004	in	5.65	4.80	0.53	0.40	0.23	0.03
			.100	mm	144	122	13	10	6	0.80
KP412-EG	KP412	Ov SF	.000	in	5.65	4.80	0.53	0.40	0.23	0.03
			.000	mm	144	122	13	10	6	0.80
KP413-EG	KP413	OS F	.004	in	5.65	4.80	0.53	0.40	0.23	0.03
			.100	mm	144	122	13	10	6	0.80
KP414-EG	KP414	OS SF	.000	in	5.65	4.80	0.53	0.40	0.23	0.03
			.000	mm	144	122	13	10	6	0.8
KP415-EG	KP415	T F	.004	in	5.65	4.80	0.53	0.40	0.17	0.03
			.100	mm	144	122	13	10	4	0.80
KP416-EG	KP416	T SF	.000	in	5.65	4.80	0.53	0.40	0.17	0.03
			.000	mm	144	122	13	10	4	0.80
KP420-EG	KP420	TS F	.004	in	5.65	4.80	0.53	0.40	0.17	0.03
			.100	mm	144	122	13	10	4	0.80
KP421-EG	KP421	TS SF	.000	in	5.65	4.80	0.53	0.40	0.17	0.03
			.000	mm	144	122	13	10	4	0.80
KP422-EG	KP422	OvSU SF	.000	in	5.63	4.78	0.50	0.38	0.20	0.03
			.000	mm	143	121	13	10	5	0.80
KP423-EG	KP423	OSTC SF	.000	in	5.63	4.78	0.50	0.30	0.20	0.03
			.000	mm	143	121	13	8	5	0.80
KP430-EG	KP430	OvHL B Mini	.007	in	5.53	4.68	0.40	0.28	0.20	0.03
			.180	mm	140	119	10	7	5	0.80
KP431-EG	KP431	OvHL F Mini	.004	in	5.53	4.68	0.40	0.28	0.20	0.03
			.100	mm	140	119	10	7	5	0.80
KP432-EG	KP432	OvHL SF Mini	.000	in	5.53	4.68	0.40	0.28	0.20	0.03
			.000	mm	140	119	10	7	5	0.80
KP435-EG	KP435	T HL SF Mini	.000	in	5.51	4.66	0.38	0.26	0.19	0.03
			.000	mm	140	118	10	7	5	0.80
KP510-EG	KP510	Ov B	.007	in	5.78	4.93	0.63	0.50	0.24	0.05
			.180	mm	147	125	16	13	6	1.30
KP511-EG	KP511	Ov F	.004	in	5.78	4.93	0.63	0.50	0.24	0.05
			.100	mm	147	125	16	13	6	1.30
KP512-EG	KP512	Ov SF	.000	in	5.78	4.93	0.63	0.50	0.24	0.05
			.000	mm	147	125	16	13	6	1.30
KP513-EG	KP513	OS F	.004	in	5.78	4.93	0.63	0.50	0.24	0.05
			.100	mm	147	125	16	13	6	1.30
KP514-EG	KP514	OS SF	.000	in	5.78	4.93	0.63	0.50	0.24	0.05
			.000	mm	147	125	16	13	6	1.30
KP515-EG	KP515	T F	.004	in	5.78	4.93	0.63	0.50	0.17	0.05
			.100	mm	147	125	16	13	4	1.30
KP516-EG	KP516	T SF	.000	in	5.78	4.93	0.63	0.50	0.17	0.05
			.000	mm	147	1.25	16	13	4	1.30
KP520-EG	KP520	TS F	.004	in	5.78	4.93	0.63	0.50	0.17	0.05
			.100	mm	147	125	16	13	4	1.30
KP521-EG	KP521	TS SF	.000	in	5.78	4.93	0.63	0.50	0.17	0.05
			.000	mm	147	1.25	16	13	4	1.30

Diagonal Cutters

Tool Numbers	Description			Length		Overall Length		Jaw Length	Cutter Width	Tip Thick	Tip
	ergo	short	head	edge		ergo	short				
KP534-EG	KP534	T H	LF	.004	in	5.60	4.75	0.44	0.32	0.22	0.05
				.100	mm	142	121	11	8	5	1.30
KP535-EG	KP535	T HL	SF	.000	in	5.60	4.75	0.44	0.32	0.22	0.05
				.000	mm	142	121	11	8	5	1.30
KP610-EG	KP610	Ov	B	.007	in	6.33	5.40	0.80	0.60	0.26	0.06
				.180	mm	161	137	20	15	7	1.50
KP611-EG	KP611	Ov	F	.004	in	6.33	5.40	0.80	0.60	0.26	0.06
				.100	mm	161	137	20	15	7	1.50
KP612-EG	KP612	Ov	SF	.000	in	6.33	5.40	0.80	0.60	0.26	0.06
				.000	mm	161	137	20	15	7	1.50
KP613-EG	KP613	OS	F	.004	in	6.33	5.40	0.80	0.60	0.26	0.06
				.100	mm	161	137	20	15	7	1.50
KP614-EG	KP614	OS	SF	.000	in	6.33	5.40	0.80	0.60	0.26	0.06
				.000	mm	161	137	20	15	7	1.50
KP615-EG	KP615	T	F	.004	in	6.33	5.40	0.80	0.60	0.18	0.05
				.100	mm	161	137	20	15	5	1.30
KP616-EG	KP616	T	SF	.000	in	6.33	5.40	0.80	0.60	0.18	0.05
				.000	mm	161	137	20	15	5	1.30
KP620-EG	-	TS	F	.004	in	6.33	-	0.80	0.60	0.18	0.05
				.100	mm	161	-	20	15	5	1.30
KP621-EG	-	TS	SF	.000	in	6.33	-	0.80	0.60	0.18	0.05
				.000	mm	161	-	20	15	5	1.30
KP63-EG	-	OS	SN	FF	.002	in	6.23	-	0.70	0.50	0.28
					.050	mm	158	-	13	8	11
KP700-EG	-	Ov	B	.007	in	7.34	-	0.50	0.30	0.44	0.07
				.180	mm	186	-	13	8	11	1.80
KP710-EG	-	Ov	B	.007	in	7.74	-	0.70	0.33	0.07	
				.180	mm	197	-	18	8	1.80	



KP410-EG
Shown at Actual Size



All tools ESD Safe (Static Dissipative)
Protects circuit components. Does not insulate. Do not use on live circuits!



Angle End and Tip Cutters

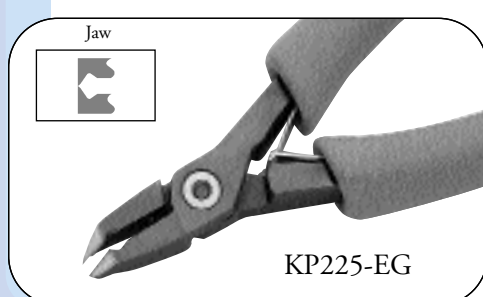
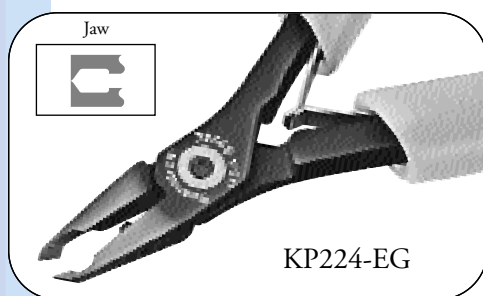
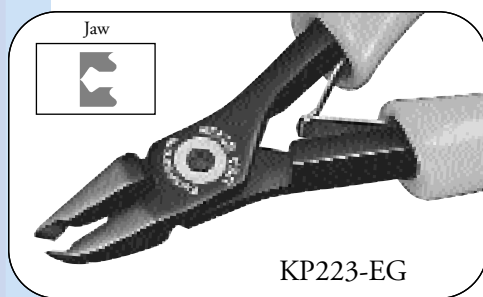
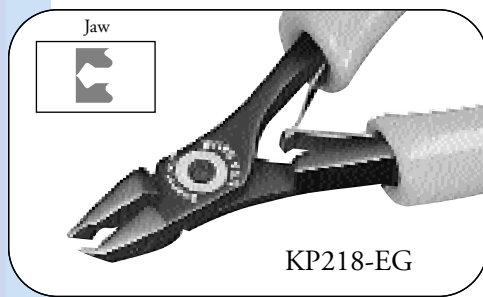
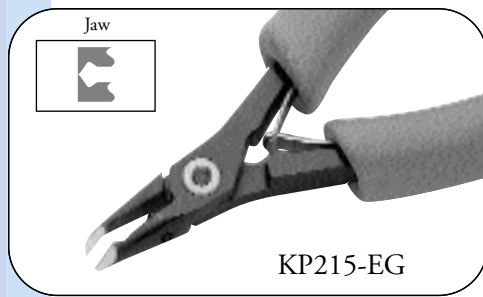
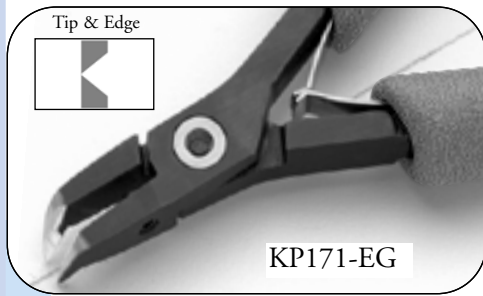
Reverse Angle, Angle End, and Tip Cutters

Reverse Angle Cutters

Tool Numbers		Description				Overall Length		Jaw Length	Cutter Length	Tip Width	Tip Thick
ergo	short	head	edge		ergo	short					
KP170-EG	-	long	SF	.000	in	5.74	-	0.61	0.20	0.15	0.03
				.000	mm	146	-	15	5	4	0.80
KP171-EG	KP171	long	SF	.000	in	5.73	4.88	0.60	0.17	0.13	0.02
				.000	mm	146	124	15	4	3	0.50

Angle End Cutters

Tool Numbers		Description				Overall Length		Jaw Length	Cutter Length	Tip Width	Tip Thick
ergo	short	head	edge		ergo	short					
KP215-EG	KP215	SU LN	45°SF	.000	in	5.84	4.99	0.71	0.25	0.19	0.07
				.000	mm	148	127	18	6	5	1.80
KP218-EG	KP218	M	45° T SF	.000	in	5.72	4.87	0.59	0.23	0.17	0.05
				.000	mm	145	124	15	6	4	1.30
KP223-EG	KP223	MI	45°LN SF	.000	in	5.80	4.95	0.67	0.16	0.15	0.05
				.000	mm	147	126	17	4	4	1.30
KP224-EG	KP224	LN	45°JR SF	.000	in	5.89	5.04	0.76	0.19	0.18	0.08
				.000	mm	150	128	19	5	4	1.90
KP225-EG	KP225	LN	45° SF	.000	in	5.84	4.99	0.71	0.26	0.18	0.11
				.000	mm	148	127	18	7	5	2.80
KP482-EG	KP482	MI	45° N SF	.000	in	5.59	4.74	0.46	0.23	0.20	0.04
				.000	mm	142	121	12	6	5	1
KP483-EG	KP483	T	60° N SF	.000	in	5.76	4.91	0.60	0.45	0.18	0.03
				.000	mm	146	125	15	11	5	0.80
KP485-EG	KP485	R	60° N SF	.000	in	5.76	4.91	0.60	0.45	0.25	0.03
				.000	mm	146	125	15	11	6	0.80
KP491-EG	KP491		60° N F	.004	in	5.76	4.91	0.60	0.45	0.25	0.03
				.100	mm	146	125	15	11	6	0.80
KP492-EG	KP492		60° N SF	.000	in	5.76	4.91	0.60	0.45	0.25	0.03
				.000	mm	146	125	15	11	6	0.80



KP171-EG
Shown at Actual Size



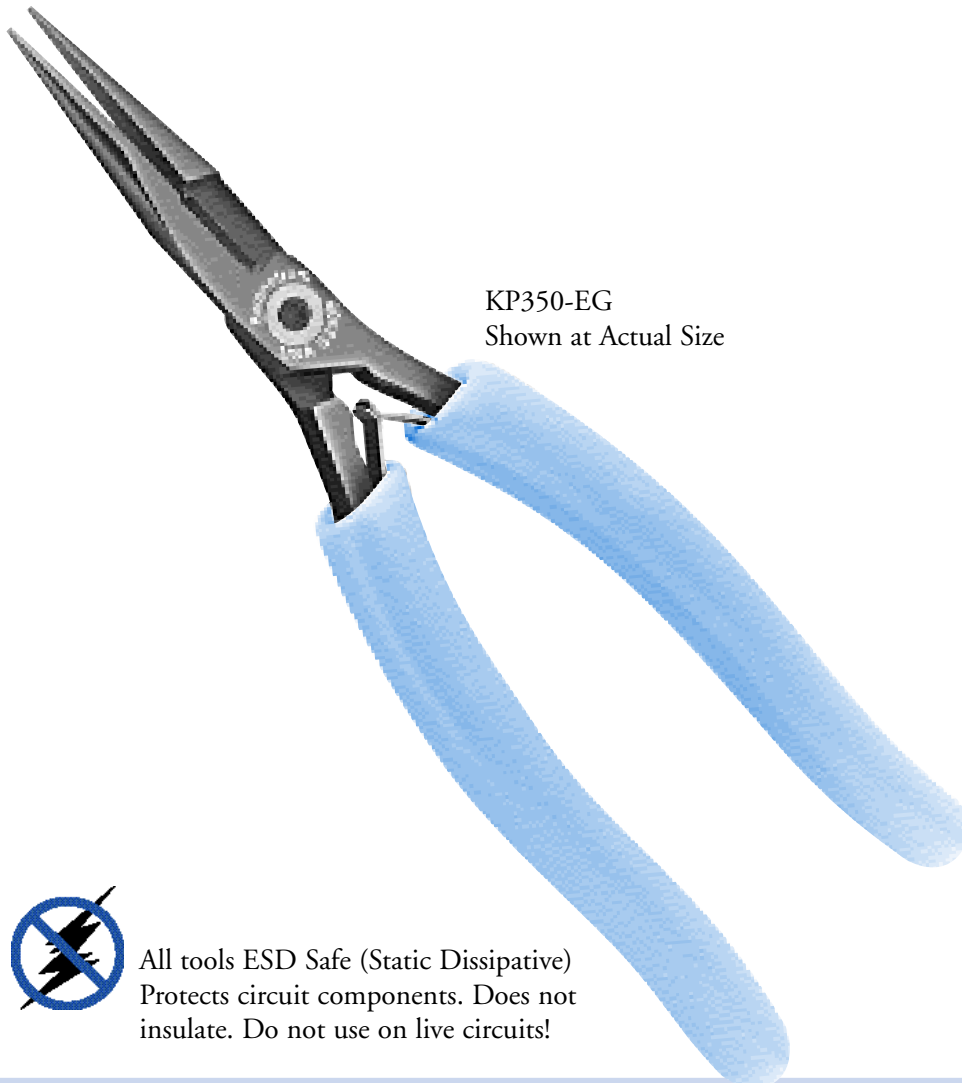
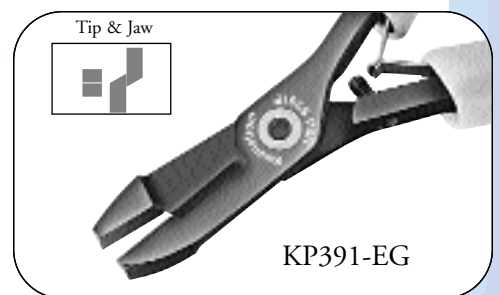
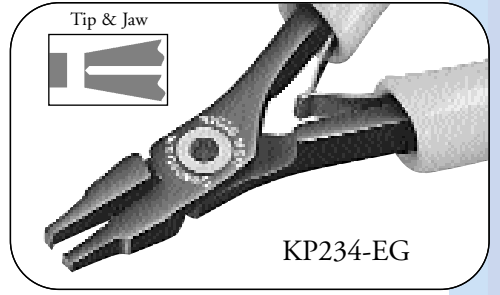
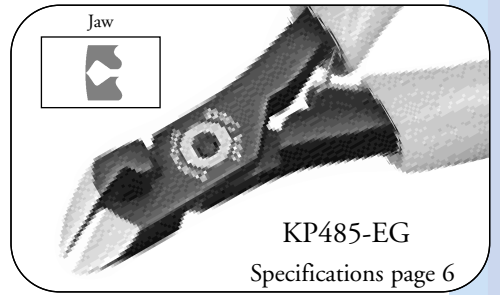
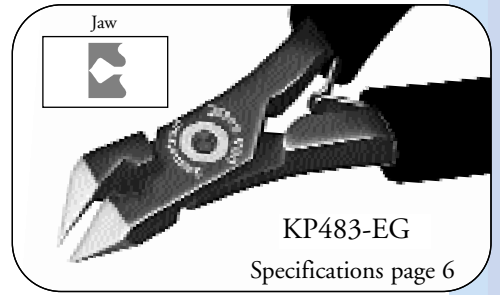
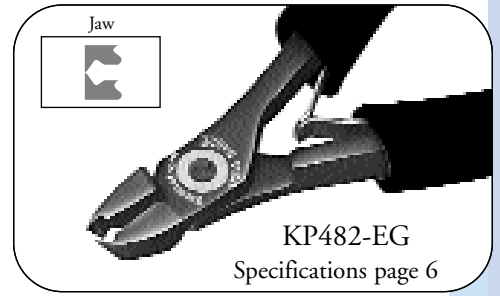
Transverse End and Long Nose Tip Cutters

Transverse End Cutters

Tool Numbers	Description Overall			Overall	Jaw Length		Cutter Length	Tip Length	Tip Width	Thick	
	ergo	short	head edge		ergo	short					
KP233-EG	KP233	LN	SF	.000	in	5.88	5.03	0.75	0.10	0.20	0.10
				.000	mm	149	128	19	2.5	5	2.50
KP234-EG	KP234	SN	F	.004	in	5.88	5.03	0.75	0.11	0.15	0.11
				.100	mm	149	128	19	2.50	4	2.50

Long Nose Tip Cutters

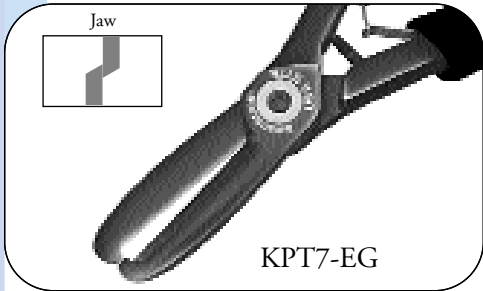
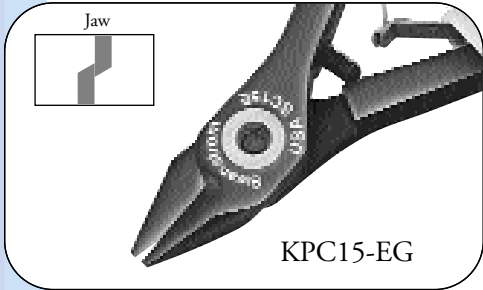
Tool Numbers	Description Overall			Overall	Jaw Length		Cutter Length	Tip Length	Tip Width	Thick	
	ergo	short	head edge		ergo	short					
KP212-EG	KP212	FN	RE SF	.000	in	5.99	5.14	0.86	0.17	0.15	0.10
				.000	mm	152	131	22	4	4	0.25
KP213-EG	-	RE	SF	.000	in	5.99	-	0.86	0.17	0.17	0.1
				.000	mm	152	-	22	4	4	2.40
KP219-EG	KP219	UF	RE SF	.000	in	5.99	5.14	0.86	0.17	0.13	0.08
				.000	mm	152	131	22	4	3	2
-	KP291LN	S	ER A		in	-	5.28	1.00	0.25	0.08	0.06
					mm	-	134	25	6	2	1.50
KP350-EG	-	SM	S		in	6.86	-	1.70	0.50	0.08	0.06
					mm	174	-	43	13	2	1.50
KP351-EG	KP351	SER	S		in	6.86	6.01	1.70	0.50	0.08	0.06
					mm	174	153	43	13	2	1.50
KP391-EG	-	SER	S		in	6.16	-	1	0.50	0.23	0.23
					mm	156	-	25	13	6	6



All tools ESD Safe (Static Dissipative)
Protects circuit components. Does not insulate. Do not use on live circuits!

Transverse End and Long Nose Tip Cutters

Shear Cutters and Strippers



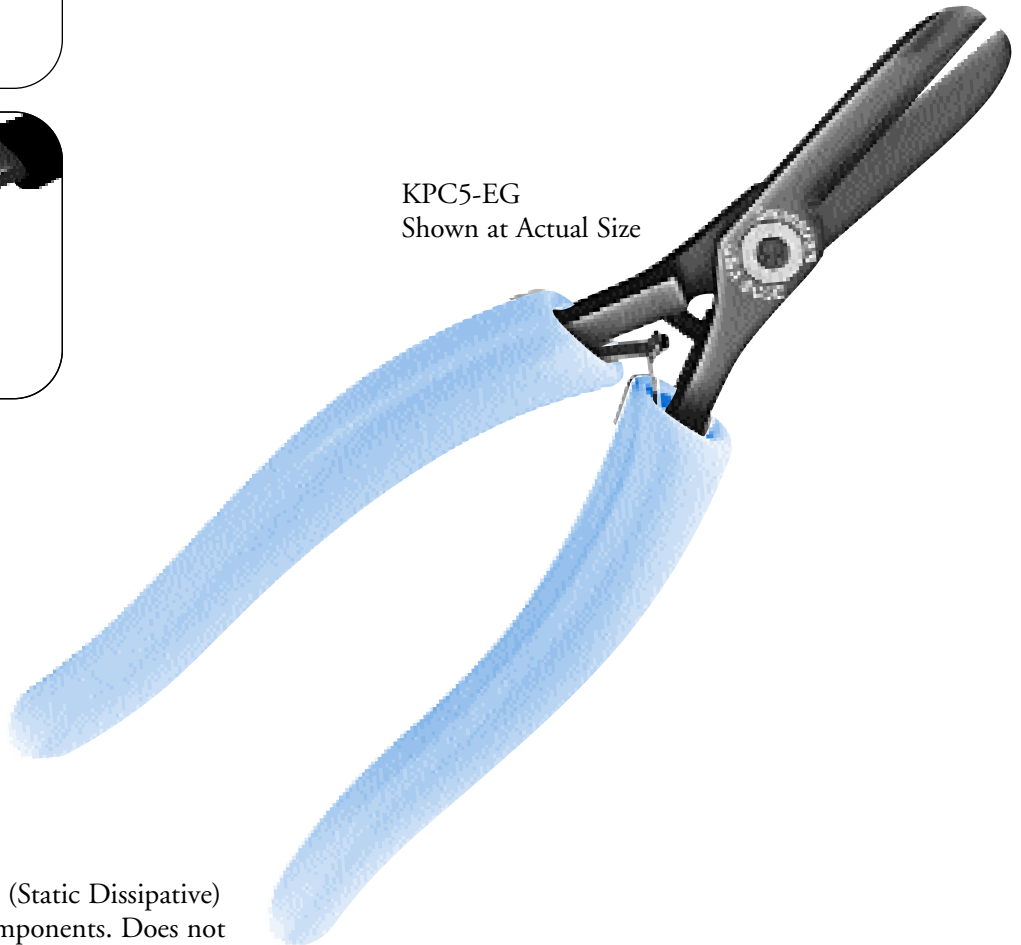
Shear Cutters

Tool Numbers ergo	Description head	Overall Length edge	Jaw Length ergo	Cutter Length	Tip Width	Tip Thick	
						in	mm
KPC5-EG	OvSC	S	6.41 in 163 mm	1.25 32	1.25 32	0.35 9	0.05 1.30
KPC7-EG	OvSC	S	8.29 in 211 mm	1.45 37	1.45 37	0.35 9	0.10 2.50
KPC15-EG	T SC	S	5.66 in 144 mm	0.50 13	0.50 13	0.06 1.4	0.05 1.30
KPC17-EG	T SC	S	7.50 in 190 mm	0.70 18	0.70 18	0.08 1.90	0.07 1.80
KPT5-EG	R ST	S	6.66 in 169 mm	1.50 38	1.25 32	0.33 8	0.20 5
KPT7-EG	R ST	S	8.47 in 215 mm	1.63 41	1.50 38	0.35 9	0.22 6

Strippers

Tool Numbers ergo	Description head	Overall Length edge	Jaw Length ergo	Cutter Length	Tip Width	Tip Thick	
						in	mm
KPV5-EG	T V	S	5.79 in 147 mm	0.63 16	0.50 13	0.32 8	0.22 6
KPV5-EG-SP	T V BP	S	5.79 in 147 mm	0.63 16	0.50 13	0.32 8	0.22 6
KPV7-EG	Ov	S	8.29 in 211 mm	1.45 37	1.45 37	0.35 9	0.10 2.50

KPC5-EG
Shown at Actual Size

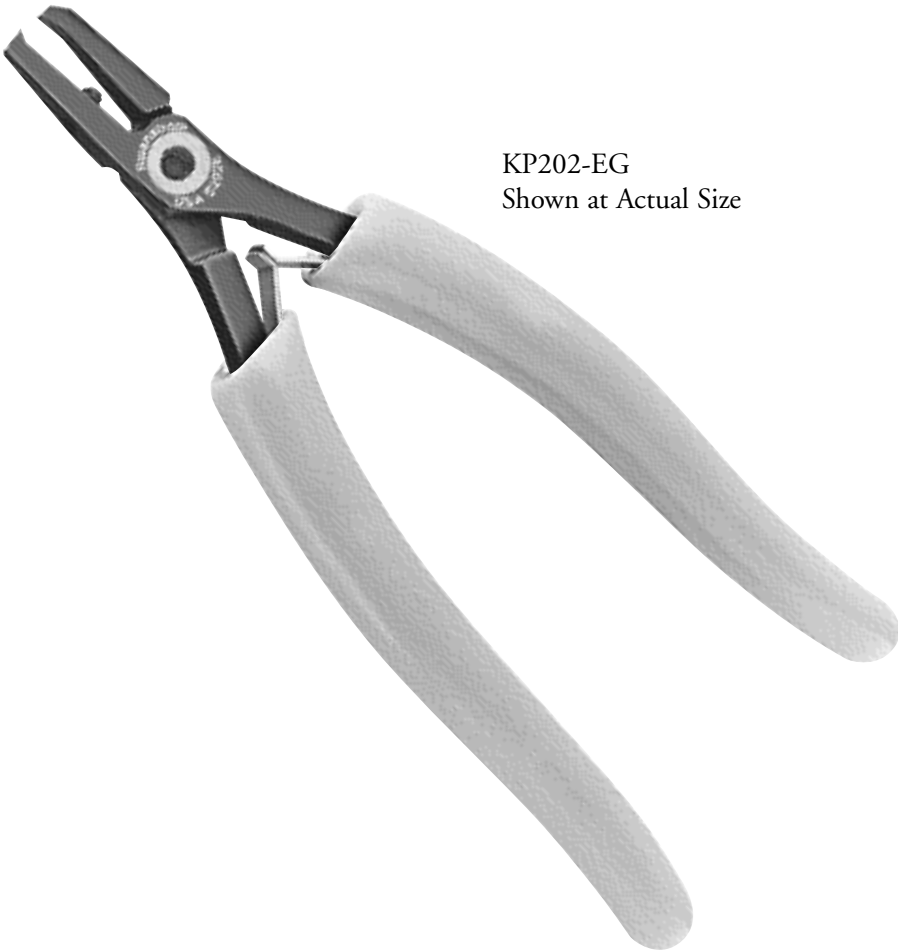
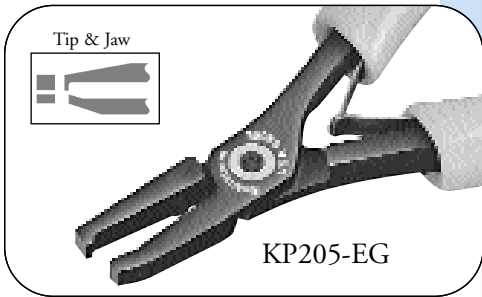
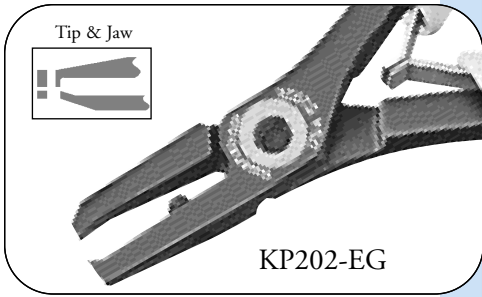
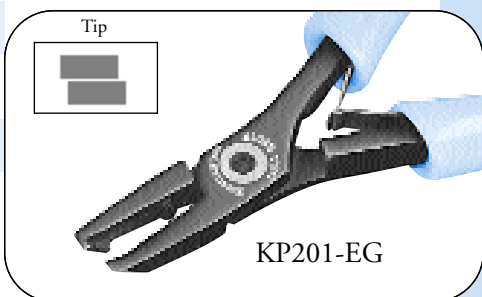
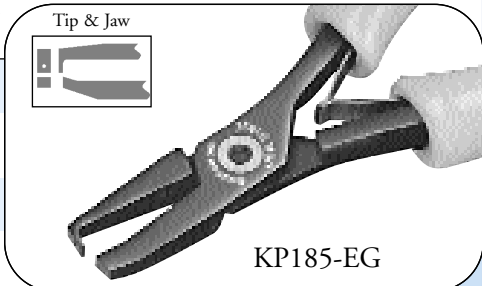


All tools ESD Safe (Static Dissipative)
Protects circuit components. Does not insulate. Do not use on live circuits!

Stand-Off Cutters

Stand-Off Cutters

Tool Numbers	Description			Overall Length	Jaw Length		Cutter Length	Tip Length	Tip Width	Stand-Off Thick	Stand-Off Distance
	short	head	edge		ergo	short					
KP185-EG (lead stabilizing hole)	-	LSH	S	in 5.93	-	0.78	0.13	0.32	0.03	0.03	8 3
KP201-EG	KP201	45°	S	in 5.83	4.98	0.70	0.18	0.25	0.18	0.04	
				mm 146	126	18	5	6	5	1	
KP202-EG	KP202	UF LN	S	in 5.92	5.07	0.79	0.10	0.215	0.09	0.04	
				mm 150	129	20	3	5	2.20	1	
KP203-EG	KP203	LN	A	in 6.09	5.24	0.96	0.10	0.18	0.03	0.04	
				mm 155	133	24	2.5	5	3.20	1	
KP205-EG	-	LN	S	in 5.92	-	0.79	0.18	0.235	0.18	0.04	
				mm 150	-	20	5	6	4.60	1	
-	KP205	B BC	S	in -	5.10	0.79	0.18	0.235	0.18	0.04	
				mm -	129	20	5	6	4.60	1	
KP605-EG	KP605	LS	S	in 6.52	5.67	1.36	0.092	0.193	0.09	0.03	
				mm 166	144	35	2	5	2.3	0.80	

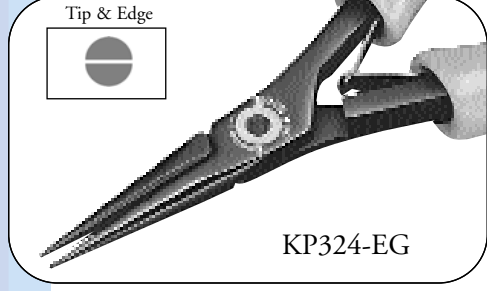
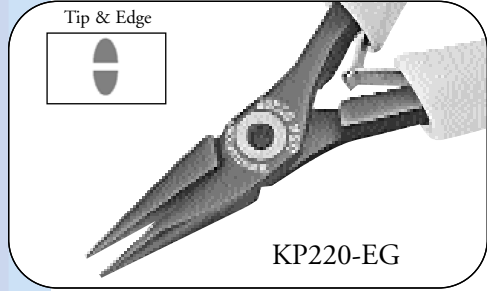
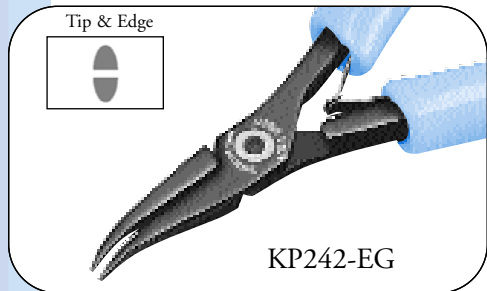
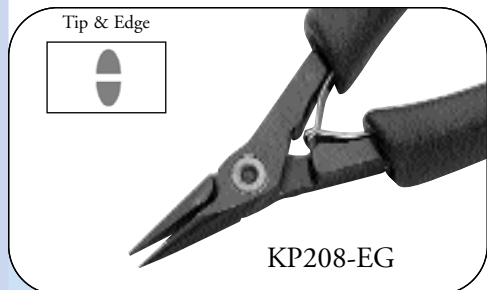


Stand-Off Cutters



Snipe (short) and Long Nose Pliers

Snipe (short) and Long Nose Pliers



Snipe Nose Pliers

Tool Numbers	Tool Description		Length jaw	Overall Length		Jaw Width	Tip Thick	Tip	
	ergo	short head		ergo	short				
-	KP108	MI	SM	in	-	4.61	0.88	0.05	0.03
				mm	-	117	22	1.10	0.80
-	KP109	MI	SER	in	-	4.61	0.88	0.05	0.03
				mm	-	117	22	1.10	0.80
-	KP206	MI	SM	in	-	4.73	0.45	0.05	0.03
				mm	-	120	11	1.10	0.80
KP208-EG	KP208	SU	SM	in	5.93	5.08	0.80	0.05	0.03
				mm	151	129	20	1.10	0.80
KP209-EG	KP209	SU	SER	in	5.93	5.08	0.80	0.05	0.03
				mm	151	129	20	1.10	0.80
KP210-EG	KP210	-	SM	in	5.93	5.08	0.80	0.06	0.03
				mm	151	129	20	1.50	0.80
KP211-EG	KP211	-	SER	in	5.93	5.08	0.80	0.06	0.03
				mm	151	129	20	1.50	0.80
KP242-EG	KP242	C	SM	in	6.03	5.18	0.90	0.07	0.04
				mm	153	132	23	1.80	1
KP243-EG	-	C	SER	in	6.03	-	0.90	0.07	0.04
				mm	153	-	23	1.80	1

Long Nose Pliers

Tool Numbers	Description		Length	Overall Length		Jaw Width	Tip Thick	Tip	
	ergo	short head		ergo	short				
KP220-EG	KP220	-	SM	in	6.13	5.28	1.00	0.06	0.03
				mm	156	134	25	1.50	0.80
KP221-EG	KP221	-	SER	in	6.13	5.28	1.00	0.06	0.03
				mm	156	134	25	1.50	0.80
KPS221-EG	-	-	SCR	in	6.13	-	1.00	0.06	0.03
				mm	156	-	25	1.50	0.80
KP320-EG	KP320	-	SM	in	6.86	6.01	1.70	0.06	0.03
				mm	174	153	43	1.50	0.80
KP321-EG	KP321	-	SER	in	6.86	6.01	1.70	0.06	0.03
				mm	174	153	43	1.50	0.80
KP323-EG	-	-	SER	in	6.86	-	1.70	0.06	0.06
				mm	174	-	43	1.60	1.60
KP324-EG	KP324	SL	SM	in	6.21	5.36	1.08	0.06	0.06
				mm	158	136	27	1.50	1.50
KP325-EG	KP325	SL	SER	in	6.21	5.36	1.08	0.06	0.06
				mm	158	136	27	1.50	1.50
KP328-EG	-	EL	SM	in	6.94	-	1.78	0.08	0.08
				mm	176	-	45	2	2
KP329-EG	KP329	EL	SER	in	6.94	6.09	1.78	0.08	0.08
				mm	176	155	45	2	2
KP630-EG	-	-	SM	in	7.53	-	1.85	0.08	0.06
				mm	191	-	47	2	1.50
KP631-EG	-	-	SER	in	7.53	-	1.85	0.08	0.06
				mm	191	-	47	2	1.50
KP721-EG	-	-	SER	in	8.94	-	2.13	0.13	0.13
				mm	227	-	54	3	3
KP831-EG	-	-	SER	in	7.94	-	1.10	0.09	0.09
				mm	202	-	28	2.40	2.40



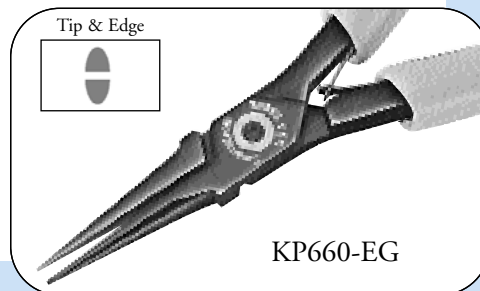
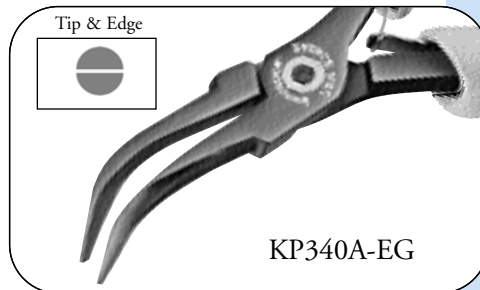
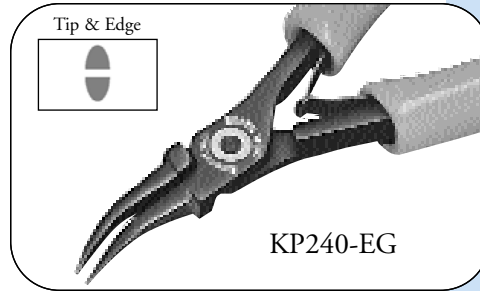
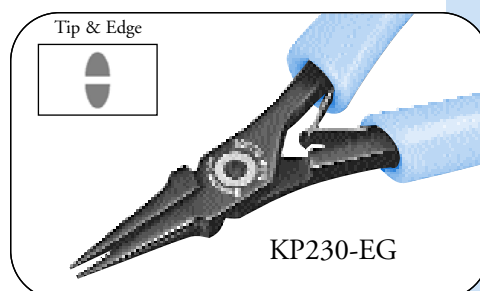
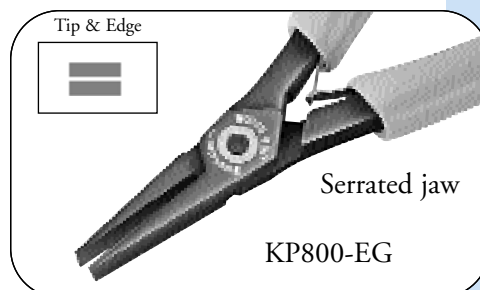
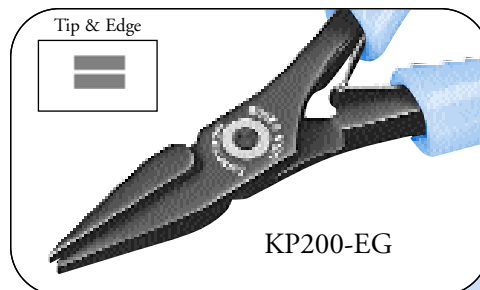
Flat, Needle, and Curve Nose Pliers

Flat Nose Pliers

Tool Numbers	Description	Tool head	Length jaw	Overall Length		Jaw Width	Tip Thick	Tip	
				ergo	short				
KP200-EG	KP200	-	SM	in	6.13	5.28	1.00	0.05	0.12
				mm	156	134	25	1.30	3
KP300-EG	-	-	SM	in	6.86	-	1.70	0.05	0.12
				mm	174	-	43	1.30	3
KP380-EPR	-	-	SM	in	7.64	-	1.00	0.05	0.12
				mm	194	-	25	1.30	3
KP800-EG	-	-	SER	in	8.21	-	1.25	0.14	0.40
				mm	209	-	32	3.50	10

Needle Nose Pliers

Tool Numbers	Description	Tool head	Length jaw	Overall Length		Jaw Width	Tip Thick	Tip		
				ergo	short					
KP230-EG	KP230	-	SM	in	6.13	5.28	1.00	0.06	0.03	
				mm	156	134	25	1.50	0.80	
KP231-EG	KP231	-	SER	in	6.13	5.28	1.00	0.06	0.03	
				mm	156	134	25	1.50	0.80	
KP240-EG	KP240	C	SM	in	5.93	5.08	0.80	0.06	0.03	
				mm	151	129	20	1.5	0.80	
KP330-EG	KP330	-	SM	in	6.86	6.01	1.70	0.06	0.03	
				mm	174	153	43	1.50	0.80	
KP331-EG	KP331	-	SER	in	6.86	6.01	1.70	0.06	0.03	
				mm	174	153	43	1.50	0.80	
KP331-EG-1	-	-	SER	in	6.86	-	1.70	0.09	0.06	
				mm	174	-	43	2.30	1.50	
KP330A-EG	KP330A	EL	SM	in	7.35	6.50	2.19	0.06	0.06	
				mm	187	165	56	1.60	1.60	
KP340-EG	KP340	C	SM	in	6.56	5.71	1.40	0.06	0.03	
				mm	167	145	36	1.50	0.80	
KP340A-EG	-	90°	EL	SM	in	6.21	-	1.05	0.06	0.06
		C		mm	158	-	27	1.60	1.60	
KP341-EG	KP341	-	SER	in	6.21	5.71	1.40	0.06	0.03	
				mm	158	145	36	1.50	0.80	
KP660-EG	-	-	SM	in	7.53	-	1.85	0.08	0.80	
				mm	191	-	47	2	1.50	
-	KP661	-	SER	in	-	6.45	1.85	0.08	0.06	
				mm	-	164	47	2	1.50	

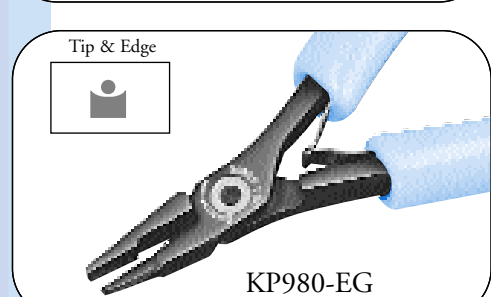
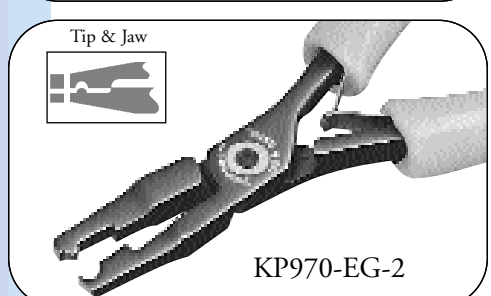
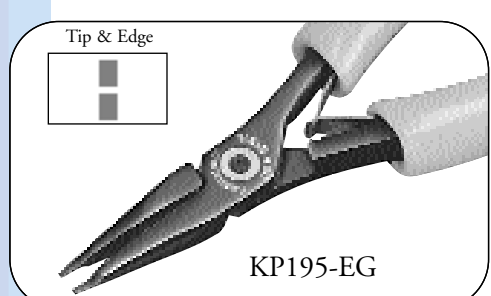
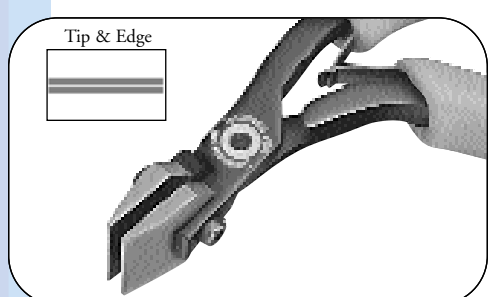
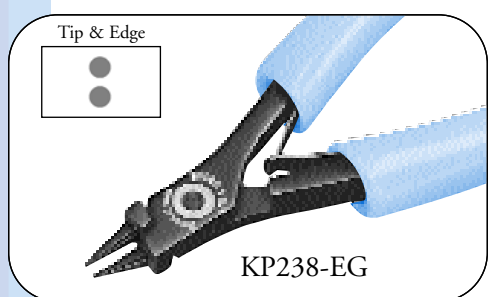
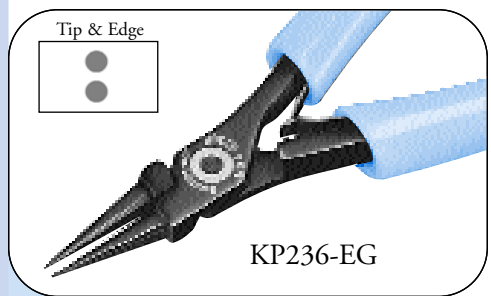


All tools ESD Safe (Static Dissipative)
Protects circuit components. Does not insulate. Do not use on live circuits!



Round Nose, Straightening, and Forming Pliers

Round Nose, Straightening, and Forming Pliers



Round Nose Pliers

Tool Numbers	Description				Overall Length		Jaw Width	Tip Thick	Tip
	ergo	short	head	jaw	ergo	short			
KP236-EG	KP236	-	SM	in	6.13	5.28	1.00	0.06	0.03
				mm	156	134	25	1.50	0.80
KP238-EG	-	-	SM	in	5.60	-	0.63	0.06	0.03
				mm	142	-	16	1.50	0.80

Straightening Pliers

Tool Numbers	Description				Overall Length		Jaw Width	Tip Thick	Tip
	ergo	short	head	jaw	ergo	short			
KP808-EG	-	-	SM	in	6.06	-	0.90	0.06	0.75
				mm	154	-	23	1.50	19

Forming Pliers

Tool Numbers	Description				Overall Length		Jaw Width	Tip Thick	Tip
	ergo	short	head	jaw	ergo	short			
KP195-EG	-	LN	-	in	6.26	-	1.00	0.09	0.03
				mm	159	-	25	2.30	0.80
KP970-EG-2	-	STR	S	in	6.25	-	1.09	0.27	0.13
				mm	159	-	27	6.90	3.30
KP980-EG	KP980	CV/CX	SM	in	5.88	5.03	1.00	0.11	0.14
				mm	149	128	25	2.80	3.60
KP986-EG	-	F/R	SM	in	6.13	-	1.00	0.11	0.14
				mm	156	-	25	2.80	3.60
KP990-EG	KP990	STR	-	in	6.19	5.34	1.03	0.17	0.13
				mm	157	136	26	4.30	3.30
KP991-EG	-	D STR	-	in	6.39	-	1.23	0.75	0.38
				mm	162	-	31	19	9.50



Specialty and Connector Pliers

Specialty Pliers

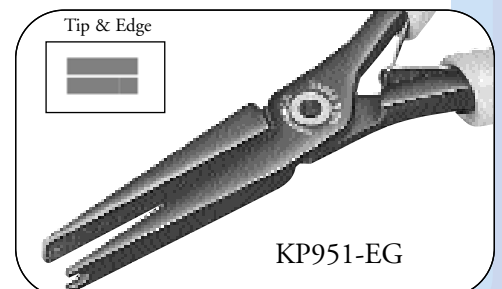
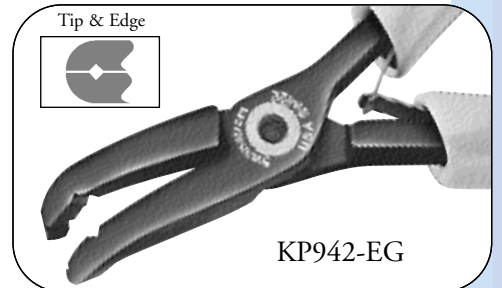
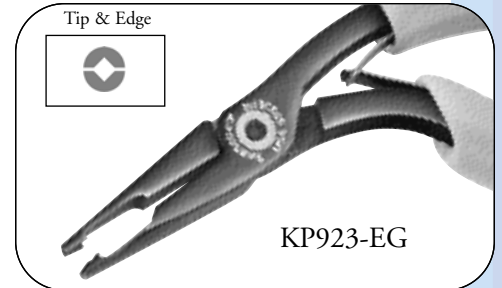
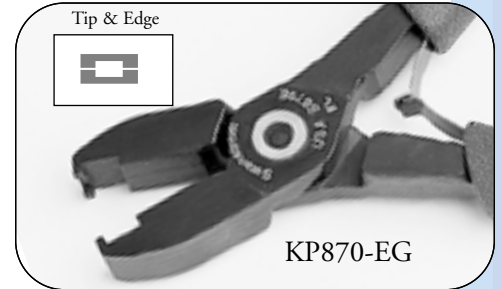
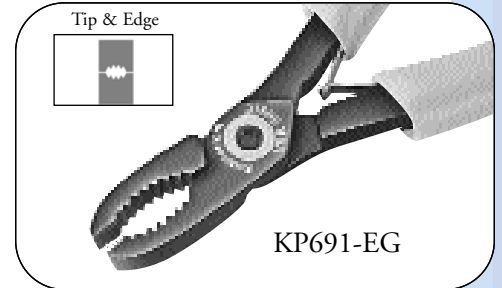
Tool Numbers	Description	Length	Overall Length	Jaw Width	Tip Thick	Tip
ergo	head	jaw	ergo			
KP593-EG	Screw Removal Tool-	in	6.50	1.00	0.18	0.35
		mm	166	25	4.60	4
KP691-EG	VJ teeth	SER	in	6.60	1.05	0.33
			mm	168	27	8.40
KP693-EG	LN	VN	in	8.94	2.10	0.25
			mm	227	53	6
KP870-EG	HC 90°	-	in	7.97	1.15	0.70
			mm	202	29	18
KP923-EG	LN JR	SM	in	6.43	1.29	0.15
	V		mm	163	33	3.80
KP942-EG	C LN	SM	in	6.11	0.80	0.25
			mm	155	20	6
KP950-EG	LN	SM	in	5.96	0.80	0.18
			mm	151	20	4.60
KP951-EG	FN	SM	in	6.86	1.70	0.09
			mm	174	43	2.30

Double Ended Pliers

Tool Numbers	Description	Overall Length	Jaw Length	Tip Width	Tip Thick
KP995	DE	in	7.50	Cutter	Plier
	Cutter/Plier	mm	191	0.53	0.88
				0.23	0.45
				6	1.10
				0.03	0.03
KP996	DE	in	7.75	Round	Flat
	Round Nose /Flat Nose	mm	197	0.75	0.80
				0.06	0.05
				1.50	1.30
				0.03	0.11
				0.80	2.80



All tools ESD Safe (Static Dissipative)
Protects circuit components. Does not insulate. Do not use on live circuits!





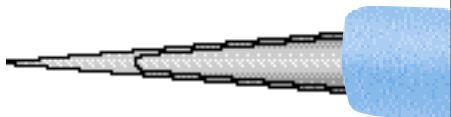
Tweezers

Swanstrom, first in the world to ergonomicize tweezers, and thereby render them ESD safe.

Part	Description	Size in	Size mm
AA-SAH	Fine Strong Tips	4.75	120
AC-SAH	Thick Short Tips	4.25	110
MM-SAH	Strong Multi Purpose	5.00	125
OO-SAH	Strong Thick Smooth Tips	4.75	120
OOD-SAH	Strong Thick Serrated Tips	4.75	120
2H	Fine Point Tapered Tips	4.50	115
2A-SAH	Rounded Flat Tips	4.50	115
3-SAH	Fine Tips	4.75	120
3C-SAH	Narrow Fine Tips	4.25	110
5A-SAH	Extra Fine, Very Sharp Tips	4.50	115
5-SAH	Extra Fine, Very Sharp Tips	4.50	115
7-SAH	Curved, Very Fine Tips	4.50	115
7-SADH	Curved, Serrated Tips	4.50	115
21-SAH	Strong Rounded Tips	6.25	159
24-SAH	Fine Bent Tips	6.00	152

Swanstrom's standard foamed tweezers are ESD safe. For no foam drop suffix "H". For serrations add suffix "D"

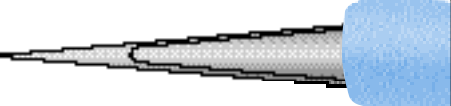
AA-SA



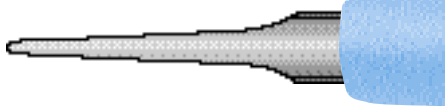
AC-SA



MM-SA



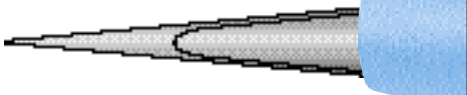
2A-SA



5-SA



OO-SA



3-SA



7-SA



OOD-SA



3C-SA

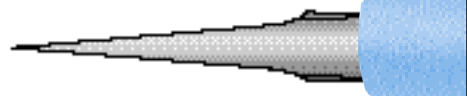


21-SA



Serrated jaw

2



5A-SA



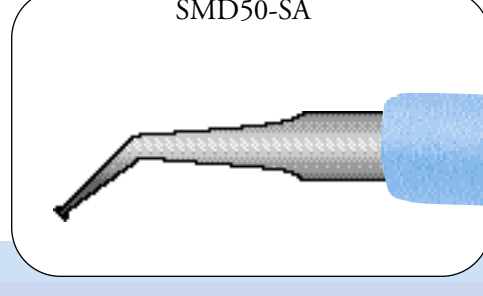
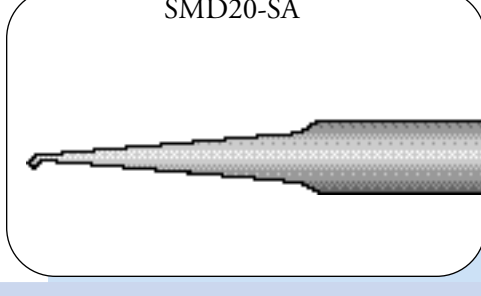
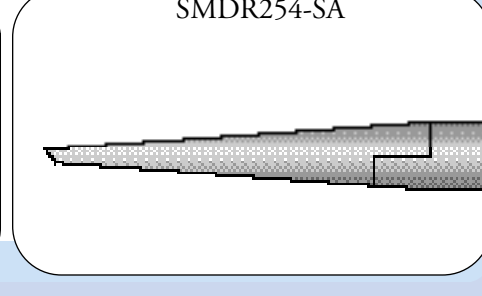
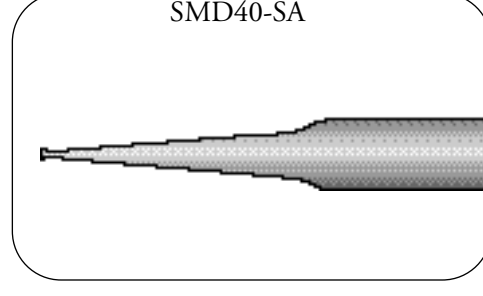
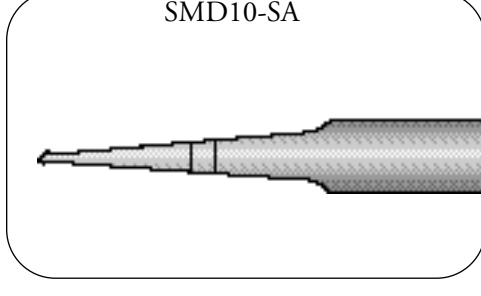
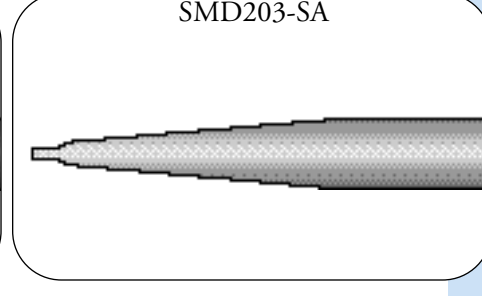
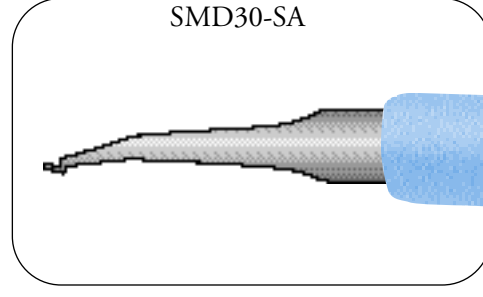
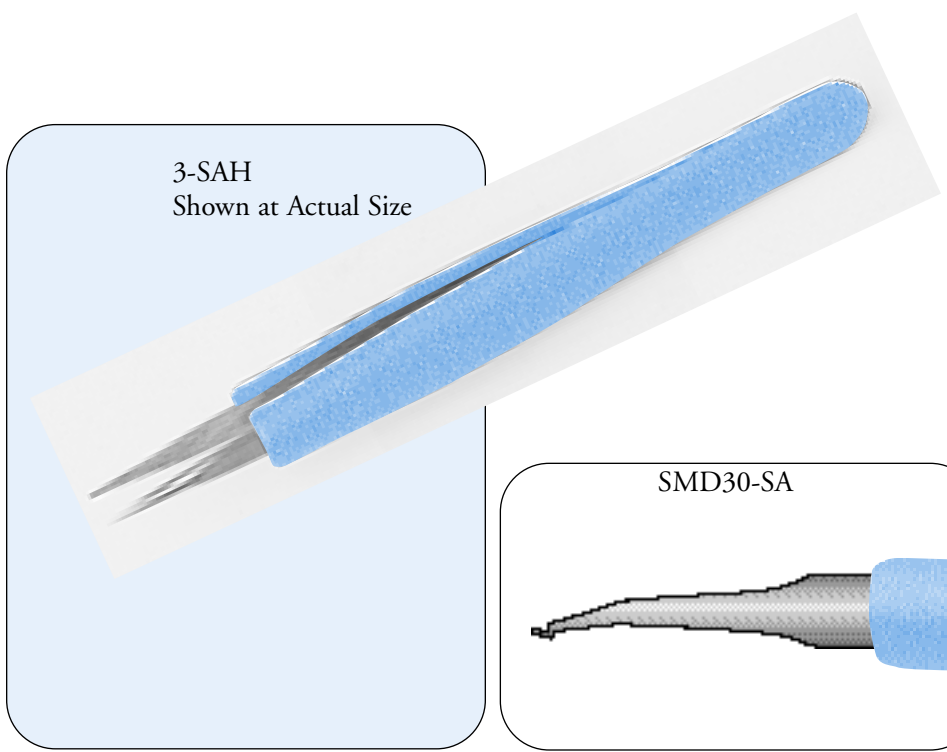
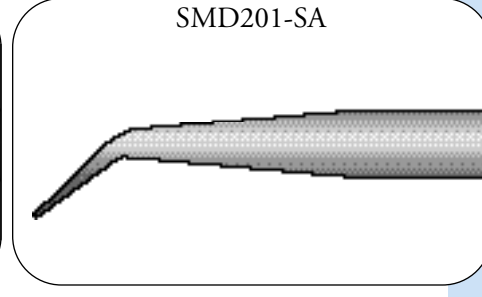
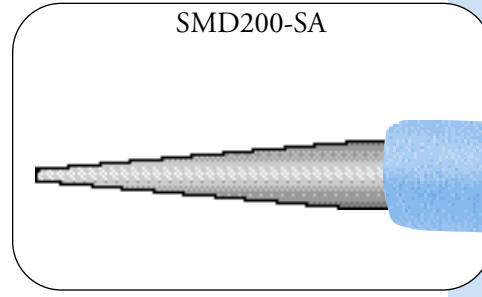
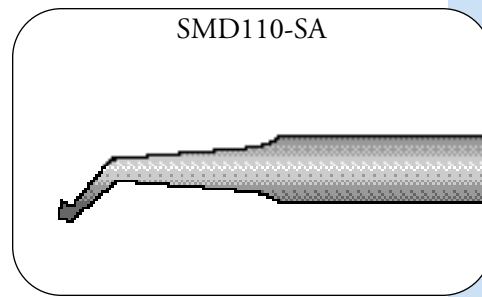
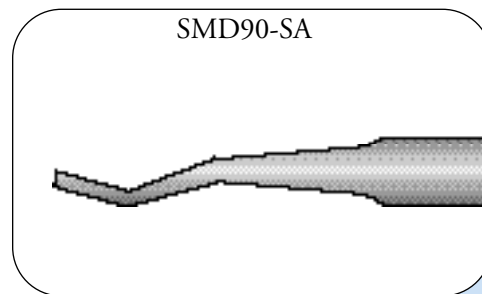
24-SA



Tweezers

SMD Tweezers

Plizers Part Handle	Jaw/Head Type		Overall length	Jaw Length	Width at Joint	Thick at Joint
PT10	Straight Smooth	in	5.50	1.27	0.40	0.25
2		mm	140	32	10	6
51	Straight Serrated	in	5.50	1.27	0.40	0.25
PT11		mm	140	32	10	6
51	Bent Smooth	in	5.10	0.93	0.40	0.25
PT30		mm	130	24	10	6
2						
51						



SMD Tweezers

STUSA Electronic Hand Tools

PRICE CUTTER!

If good tools at the lowest possible tool prices are your requirement, then STUSA-170 Mini Shear Cutter is 15% stronger and harder than other 170s.

STUSA-170 shear (.004)

STUSA-170ESD

STUSA-171 flush cut (.002)

STUSA-171ESD



STUSA-170
Shown at Actual Size

Lowest Cost
Low cost ESD safe