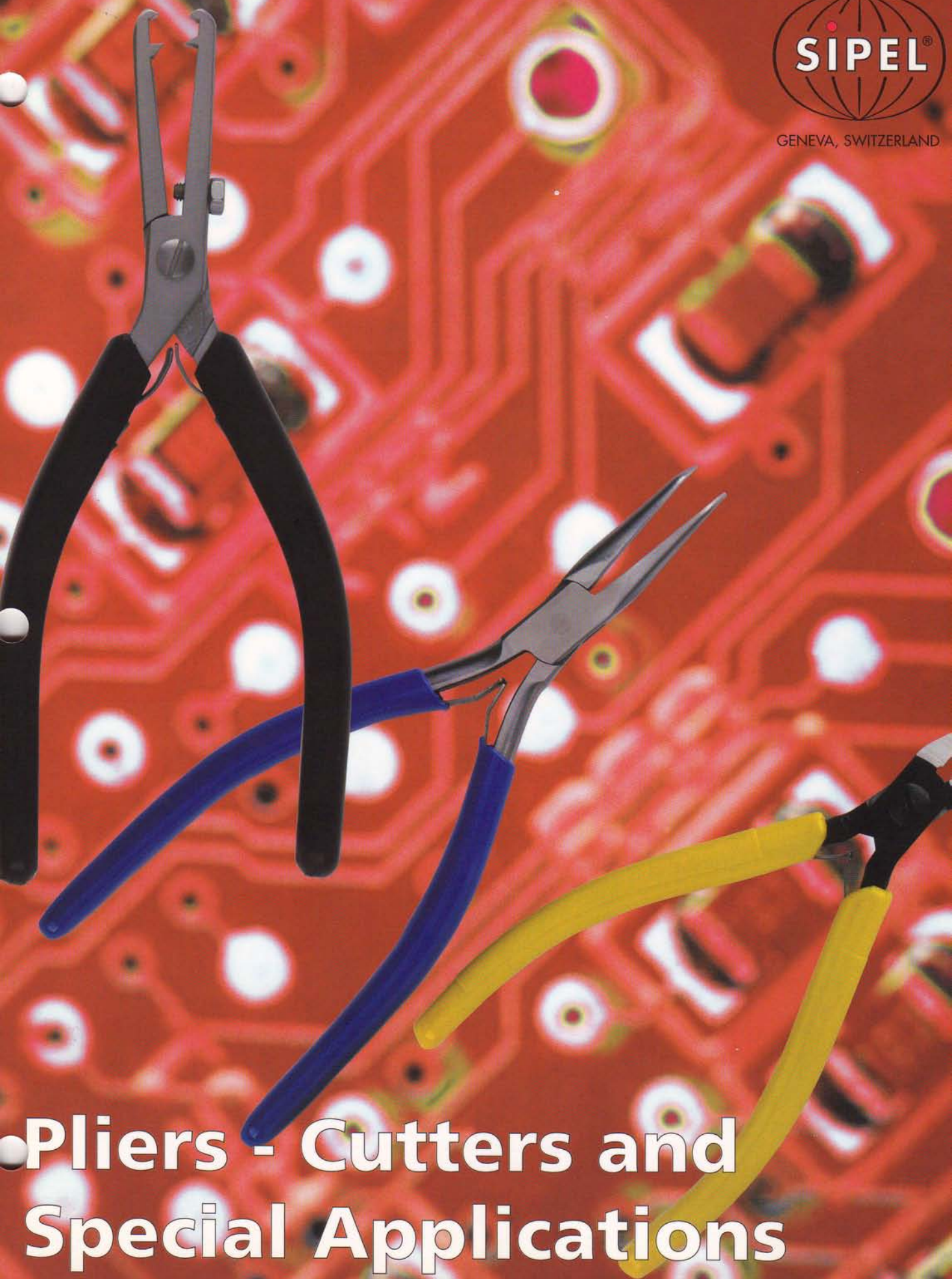




GENEVA, SWITZERLAND



Pliers - Cutters and Special Applications

1 SIPEL STAINLESS STEEL LINE

NUMERICAL INDEX

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111-SD	1/5	157-S	1/2	215A-S	1/4	260-SD-6L	1/5
115-S	1/4	168-S	1/3	215A-SD	1/4	268-S	1/3
115-SD	1/4	168R-S	1/3	242-S	1/4	268R-S	1/3
115A-S	1/4	170-S	1/2	242-SD	1/4	270-S	1/2
115A-SD	1/4	171-S	1/2	243-S	1/5	271-S	1/2
142-S	1/4	172-S	1/3	243-SD	1/5	272-S	1/3
142-SD	1/4	172C-S	1/3	244-S	1/5	272C-S	1/3
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143-SD	1/5	184-S	1/1	244LB-S	INTRO	284-S	1/1
144-S	1/5	186-S	1/1	244LB-SD	INTRO	286-S	1/1
144-SD	1/5	190-S	1/2	245-S	1/4	290-S	1/2
144LB-S	INTRO	192-S	1/1	245-SD	1/4	292-S	1/1
144LB-SD	INTRO	195-S	1/1	246-S	1/4	295-S	1/1
145-S	1/4	199-S	1/1	246-SD	1/4	299-S	1/1
145-SD	1/4	199A-S	1/1	247-S	1/5	299A-S	1/1
146-S	1/4	211-S	1/5	247-SD	1/5		
146-SD	1/4	211-SD	1/5	257-S	1/2		
147-S	1/5	215-S	1/4	260-SD-5	1/5		

Other Models Available Upon Request

2 SIPEL DURA/NADIUM LINE

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111	2/1	143	2/2	172	2/9	192	2/6
111/D	2/1	144	2/2	172C	2/9	195	2/6
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120	2/3	147	2/2	177	2/5	196/5"	2/8
121	2/1	147/D	2/3	179	2/5	196/6"	2/8
125	2/4	149/A	2/3	180	2/5	197	2/6
125/A	2/4	152	2/7	184	2/6	199	2/6
127	2/4	157	2/4	186	2/7	215	2/8
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3 SIPEL TECHNICA LINE

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1140	3/2	1141/C	3/3	1151/B	3/4	1161	3/5
1140/A	3/2	1150	3/3	1151/C	3/5	1161/A	3/5
1140/B	3/2	1150/A	3/4	1160	3/5	1161/B	3/6
1140/C	3/3	1150/B	3/4	1160/A	3/5	1161/C	3/6
1141	3/2	1150/C	3/4	1160/B	3/6		
1141/A	3/2	1151	3/3	1160/C	3/6		
1141/B	3/3	1151/A	3/4	1160/P	3/6		

4 SIPEL SPECIAL TOOLS & FORMERS

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3505-28	4/6	5505J	4/6	5530G	4/3	5907	4/5
3505-40	4/6	5506	4/4	5631-DELIRIN	4/5	5907-4	4/5
3505-48	4/6	5507-88	4/2	5531-ESD	4/5	TIP3505-28	4/6
5500-103	4/2	5507-89	4/2	5536	4/4	TIP3505-40	4/6
5500-104	4/3	5608-DELIRIN	4/3	5539	4/4	TIP3505-48	4/6
5500-108	4/5	5508-ESD	4/3	5549	4/4	TIP5508	4/3
5500-13A	4/2	5508-STEEL	4/3	5554A	4/2	TIP5608-DELIRIN	4/3
5501	4/5	5509	4/3	5554B	4/2	TIP5508-ESD	4/3
5505	4/6	5509A	4/4	5554TB	4/2	TIP5631-DELIRIN	4/5
5505A	4/6	5510A	4/5	5554TX	4/2	TIP5531-ESD	4/5
5505B	4/6	5530	4/4	5555	4/1		
5505BG	4/6	5530-1	4/4	5430	4/4		

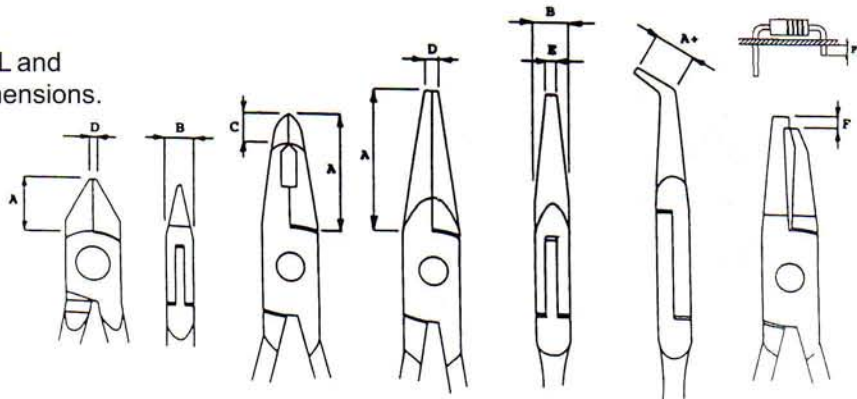
5 SIPEL PNEUMATIC CUTTER & HEADS

NUMERICAL INDEX

Ref. No.	SEC/Pag.	Ref. No.	SEC/Pag.	Ref. No.	SEC/Pag.	Ref. No.	SEC/Pag.
1530-P	5/1	1549-P	5/1	1595-P	5/1	SIPAIR 2000	5/1
1530D-P	5/1	1582-P	5/1	1597-P	5/1		

TECHNICAL INFORMATION

Reference drawings for STAINLESS STEEL and DURA-NADIUM line Cutters and Pliers dimensions.



HEAD TYPES

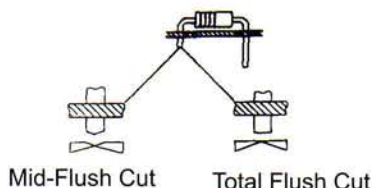
Cutting heads are available in round, round relieved, tapered, tapered relieved and various angles. Round heads normally last longer because of more material behind the cutting edge.

SELECTION

Picking the proper size of cutter is very important. You should always pick the largest cutter that will properly do the job. This will assure the maximum cutting life.

CUT TYPES

SIPEL cutters are available with Mid-Flush or Total Flush cutting edges. See illustration that shows how these cuts vary. A Total Flush cutter transmits less shock but will not last as long as a Mid-Flush cutter.



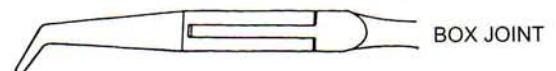
LAP JOINT

The Lap Joint is the most common joint used on pliers and cutters. It is used on most of the DURA/NADIUM Line. The rivet is precision machined to assure proper fit and easy long life action.



BOX JOINT

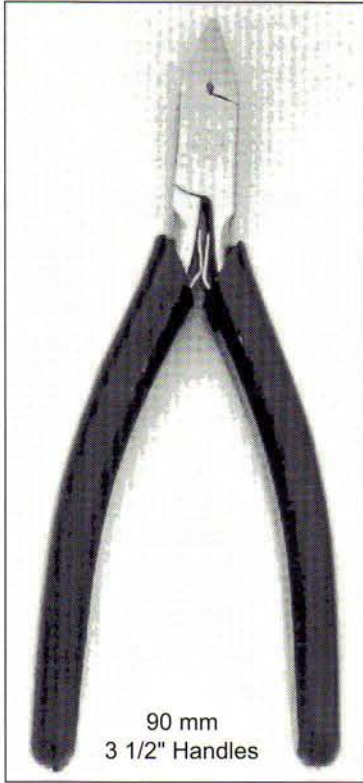
The Box Joint is a precision joint that is less likely to become loose. It is used on all the Stainless Steel Line and a few of the DURANADIUM Line.



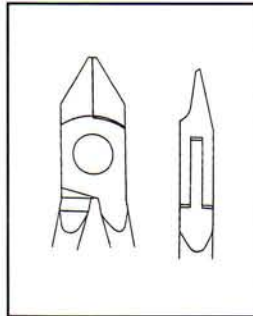


SIPEL Introduces New STAINLESS STEEL PLIER LINE

- High Quality
 - Box Joint
 - 2 Handle Lengths
 - Choice of 3 grips
 - Unique opening stop available

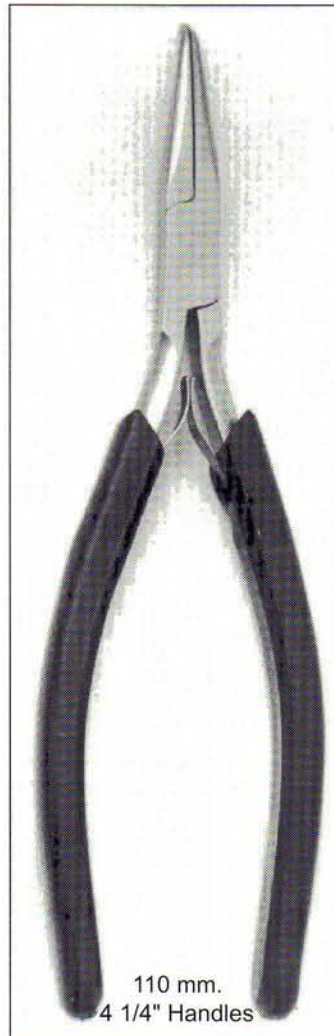


90 mm
3 1/2" Handles

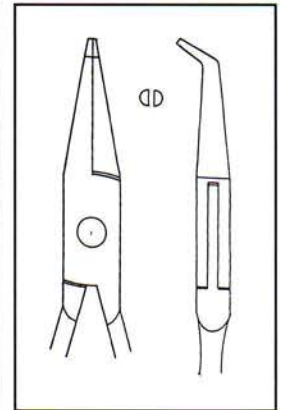


Tapered Relieved
Total Flush
192-S

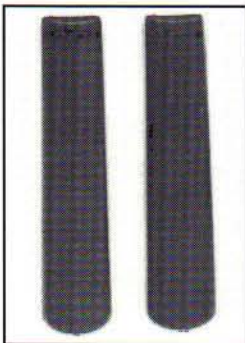
- A. 12.5 mm .492"
- B. 6 mm .235"
- C. 12.5 mm .492"
- D. 0.7 mm .027"



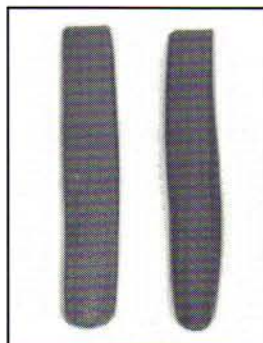
110 mm.
4 1/4" Handles



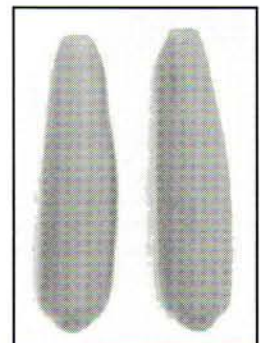
- Mini Long Narrow
Chain Nose 60° Angle
- 144 LB-S** Smooth
 - 144 LB-SD** Serrated
 - A. 25 mm 1"
 - A+. 6 mm .235"
 - B. 6 mm .235"
 - D. 1.5mm .06"
 - E. 1.5mm .06"
 - 244 LB-S** Smooth
 - 244 LB-SD** Serrated



Black ESD Grips
Add "ESD" to Part No.



Blue Plastic Grips
Add "BH" to Part No.

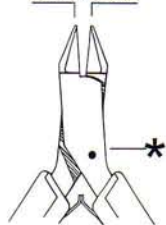


Red Foam Grips
Add "FH" to Part No.

Note: If letters are not added to the Part No. Blue Plastic Grips will be shipped.

SIPEL STAINLESS STEEL LINE 1/1

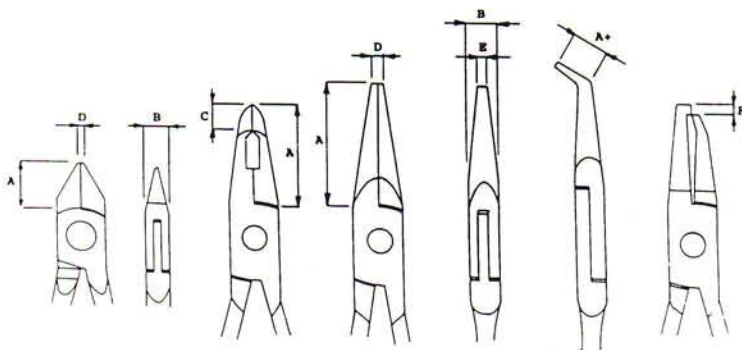
5 MM. .20"



Reference drawings for
Cutters and Pliers dimensions.

* All Pliers and Cutters are available with
STOP OPENING upon request. To order,
add the Suffix "SO" example 211SB-SO

Standard Stop Opening is 5 mm./ .20"
at tip. Other Openings on request.



Note: If Mid-Flush Cut is desired on any cutter , add MF to Part No. Example: 199-S-MF

<p>199-S 199A-S 299-S 299A-S</p>	<p>Round Nose Head, Total Flush Cutter</p>	<p>199-S A. 12 mm. .48" B. 6 mm. .235" D. 12 mm. .48" 110 mm. / 4 1/4"</p> <p>199A-S Same Size - Relieved Head</p> <p>299-S Same as 199 only 130 mm / 5 1/4"</p> <p>299A-S Same as 199A only 130 mm / 5 1/4"</p>
<p>195-S 192-S 295-S 292-S</p>	<p>Small Size Tapered Head, Total Flush Cutter</p>	<p>195-S A. 12 mm. .48" B. 6 mm. .235" C. 12 mm. .48" D. 1 mm. .04" 110 mm. / 4 1/4"</p> <p>192-S Same size - Relieved Head</p> <p>295-S Same as 195 only 130 mm. / 5 1/4"</p> <p>292-S Same as 192 only 130 mm. / 5 1/4"</p>
<p>186-S 184-S 286-S 284-S</p>	<p>Tapered Head, Total Flush Cutter</p>	<p>186-S A. 14 mm. .55" B. 6 mm. .235" C. 14 mm. .55" D. 1.5 mm. .06" 110 mm. / 4 1/4"</p> <p>184-S Same Size - Relieved Head</p> <p>286-S Same as 186 only 130 mm. / 5 1/4"</p> <p>284-S Same as 184 only 130 mm. / 5 1/4"</p>

1/2 SIPEL STAINLESS STEEL LINE

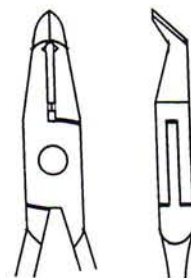
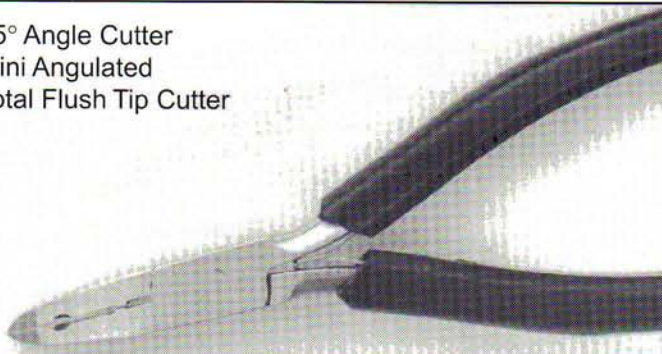
157-S

A. 5 mm. .20"
B. 6 mm. .235"
C. 5 mm. .20"
120 mm. / 4 3/4"

257-S

140 mm. / 5 1/2"

45° Angle Cutter
Mini Angulated
Total Flush Tip Cutter



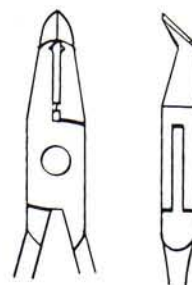
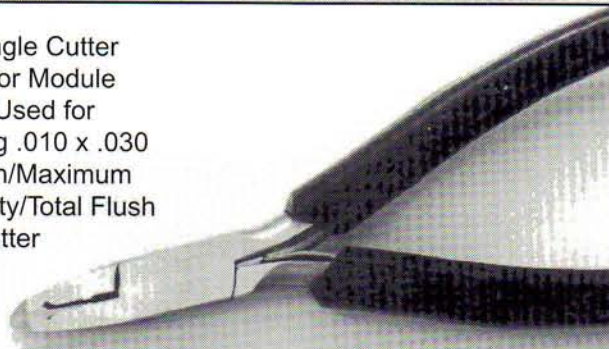
190-S

A. 6 mm. .235"
B. 6 mm. .235"
C. 6 mm. .235"
120 mm. / 4 3/4"

290-S

140 mm. / 5 1/2"

45° Angle Cutter
Ideal for Module
Work/Used for
Cutting .010 x .030
Ribbon/Maximum
Visibility/Total Flush
Tip Cutter



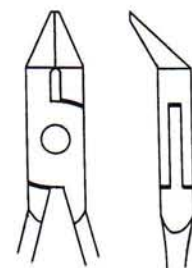
171-S

A. 16 mm. .63"
B. 6 mm. .235"
C. 12 mm. .48"
D. 1 mm. .04"
110 mm. / 4 1/4"

271-S

130 mm. / 5 1/4"

40° Angle Cutter
to Cut .010" x .030 and has .025
Alignment Pin for Precision
Blade Alignment
Total Flush Cut



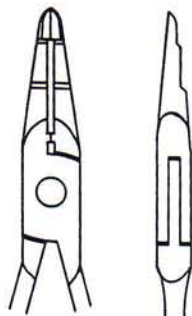
170-S

A. 24 mm. .95"
B. 6 mm. .235"
C. 5 mm. .20"
120 mm / 4 3/4"

270-S

140 mm. / 5 1/2"

Tapered Relieved Tip Cutter.
For Cutting Extreme Tips.
Total Flush Tip Cutter



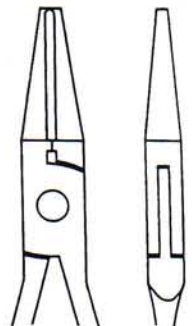
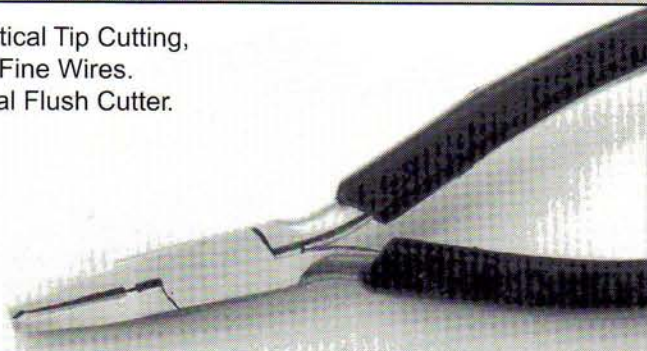
173-S

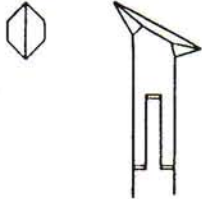
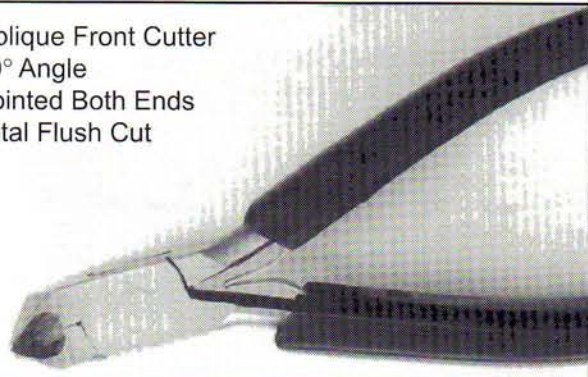
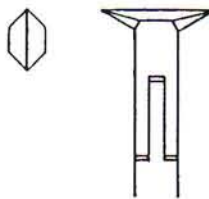
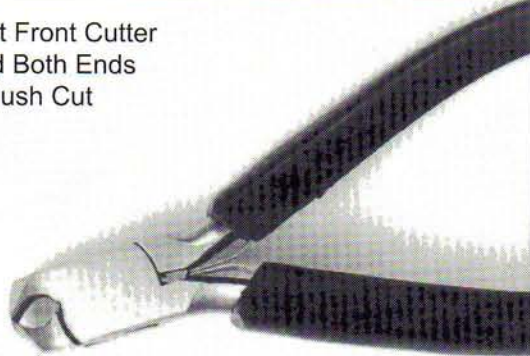
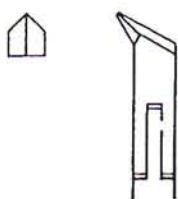
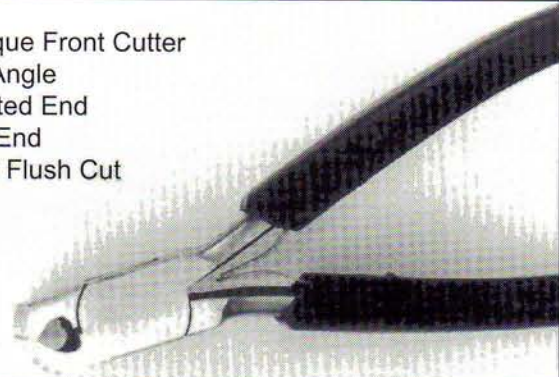
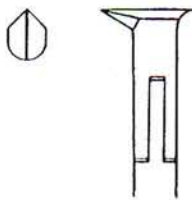
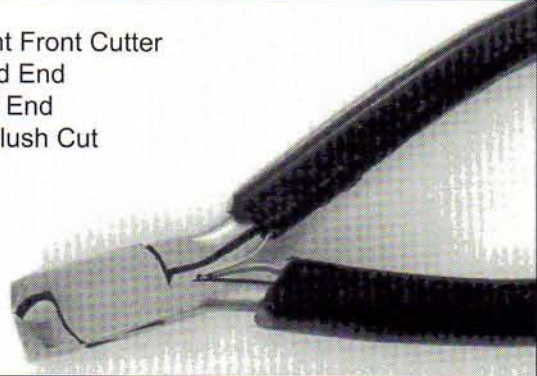
A. 22 mm. .87"
B. 6 mm. .235"
C. 2.5 mm. .1"
D. 4 mm. .16"
120 mm. / 4 3/4"

273-S

140 mm. / 5 1/2"

Vertical Tip Cutting,
for Fine Wires.
Total Flush Cutter.



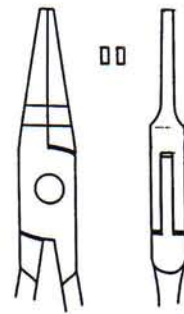
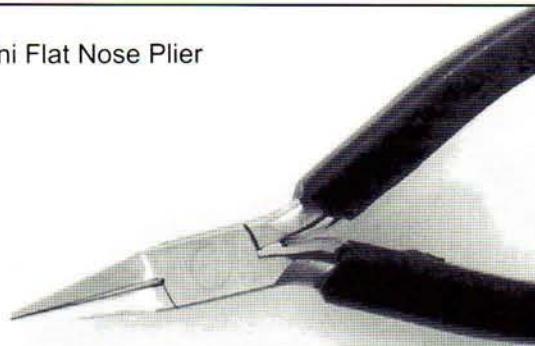
	<p>Oblique Front Cutter 60° Angle Pointed Both Ends Total Flush Cut</p> 	<p>172-S A. 10 mm. .40" B. 6 mm. .235" C. 18 mm. .71" 120 mm. / 4 3/4"</p> <p>272-S 140 mm. / 5 1/2"</p>
	<p>Straight Front Cutter Pointed Both Ends Total Flush Cut</p> 	<p>168-S A. 6 mm. .235" B. 6 mm. .235" C. 17 mm. .67" 120 mm. / 4 3/4"</p> <p>268-S 140 mm. / 5 1/2"</p>
	<p>Oblique Front Cutter 60° Angle Pointed End Flat End Total Flush Cut</p> 	<p>172C-S A. 10 mm. .40" B. 6 mm. .235" C. 14 mm. .55" 120 mm. / 4 3/4"</p> <p>272C-S 140 mm. / 5 1/2"</p>
	<p>Straight Front Cutter Pointed End Round End Total Flush Cut</p> 	<p>168R-S A. 6 mm. .235" B. 6 mm. .235" C. 14 mm. .55" 120 mm / 4 3/4"</p> <p>268R-S 140 mm. / 5 1/2"</p>

SIPEL OFFERS A CHOICE OF TWO HANDLE LENGTHS AND THREE DIFFERENT GRIPS ON ALL PLIERS AND CUTTERS IN THIS LINE. OTHER MODELS AVAILABLE UPON REQUEST

1/4 SIPEL STAINLESS STEEL LINE

142-S Smooth Jaws
142-SD Serrated Jaws
 A. 24 mm. .95"
 B. 6 mm. .235"
 D. 1.5 mm. .06"
 E. 2 mm. .078"
 130 mm. / 5 1/4"

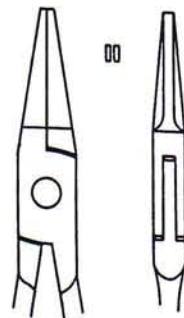
Mini Flat Nose Plier



242-S Smooth Jaws
242-SD Serrated Jaws
 150 mm. / 6"

115A-S Smooth Jaws
115A-SD Serrated Jaws
 A. 24 mm. .95"
 B. 6 mm. .235"
 D. 1.5 mm. .06"
 E. 4 mm. .16"
 120 mm. / 4 3/4"

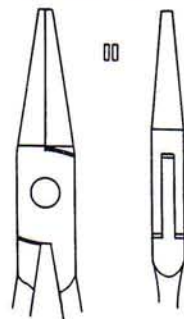
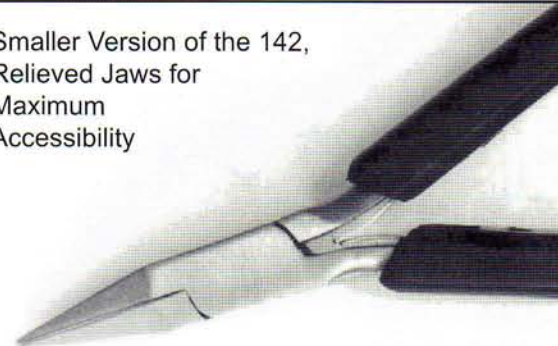
Flat Nose Plier
 Wider tips



215A-S Smooth Jaws
215A-SD Serrated Jaws
 140 mm. / 5 1/2"

145-S Smooth Jaws
145-SD Serrated Jaws
 A. 23 mm .91"
 B. 6 mm .235"
 D. 1.5 mm .06"
 E. 1.5 mm .06"
 120 mm. / 4 3/4"

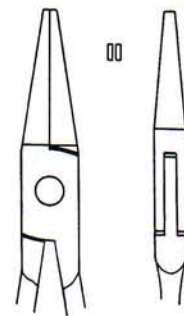
Smaller Version of the 142,
 Relieved Jaws for
 Maximum
 Accessibility



245-S Smooth Jaws
245-SD Serrated Jaws
 140 mm. / 5 1/2"

115-S Smooth Jaws
115-SD Serrated Jaws
 A. 24 mm. .95"
 B. 6 mm .235"
 D. 1.5 mm. .06"
 E. 5 mm. .20"
 130 mm. / 5 1/4"

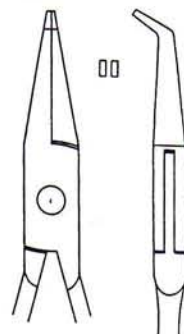
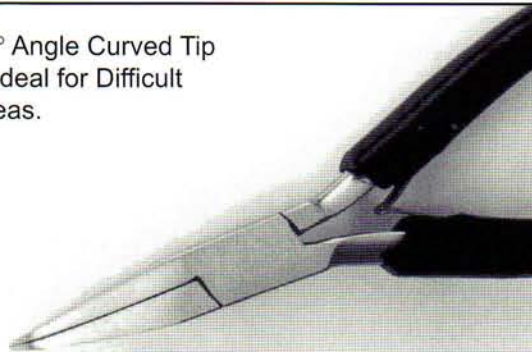
Medium-Flat Nose
 Smooth Surfaces



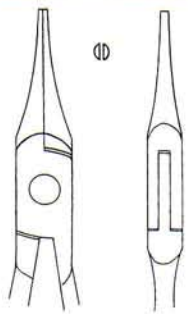
215-S Smooth Jaws
215-SD Serrated Jaws
 150 mm. / 6"

146-S Smooth Jaws
146-SD Serrated Jaws
 A. 25 mm. 1"
 B. 6 mm. .235"
 D. 1.5 mm. .06"
 E. 1.5 mm. .06"
 A. 6 mm. .235"
 130 mm. / 5 1/4"

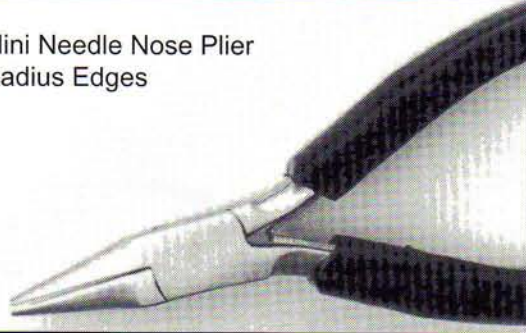
60° Angle Curved Tip
 is Ideal for Difficult
 Areas.



246-S Smooth Jaws
246-SD Serrated Jaws
 150 mm. / 6"



Mini Needle Nose Plier
Radius Edges



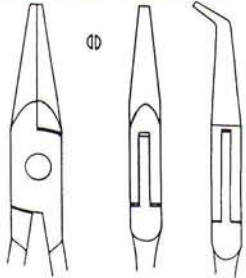
147-S Smooth Jaws

147-SD Serrated Jaws

- A. 22 mm. .87"
- B. 6 mm. .235"
- C. 1.5 mm. .06"
- E. 1.5 mm. .06"
- 120 mm. / 4 3/4"

247-S Long Handle/Smooth Jaws

247-SD Long Handle/Serrated Jaws
140 mm. / 5 1/2"



Mini Long Narrow Chain
Nose Plier



144-S Smooth Jaws

144-SD Serrated Jaws

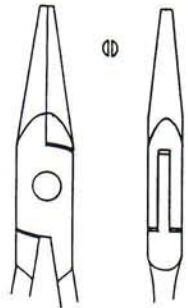
- A. 25 mm. 1"
- B. 6 mm. .235"
- C. 1 mm. .04"
- E. 1.5 mm. .06"
- 120 mm. / 4 3/4"

244-S Long Handle/Smooth Jaws

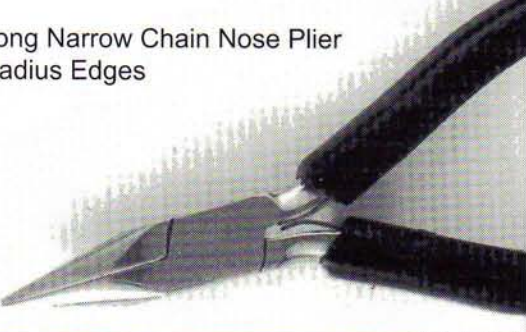
244-SD Long Handle/Serrated
Jaws
140 mm. / 5 1/2"

144-S 144LB-S
244-S 244LB-S

Note: This Plier Available with Bent Nose. See Introductory Page.



Long Narrow Chain Nose Plier
Radius Edges



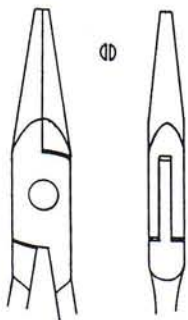
111-S Smooth Jaws

111-SD Serrated Jaws

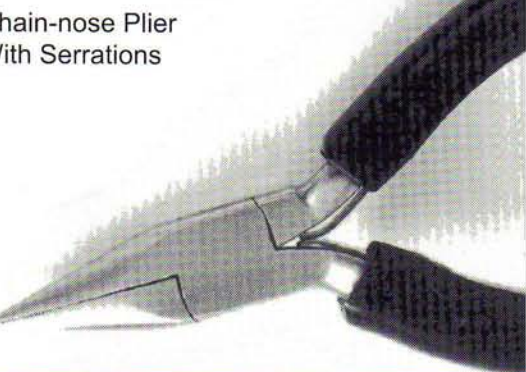
- A. 27 mm. .1 1/16"
- B. 6 mm. .235"
- C. 1.5 mm. .06"
- E. 2 mm. .08"
- 130 mm. / 5 1/4"

211-S Long Handle/Smooth Jaws

211-SD Long Handle/Serrated Jaws
150 mm. / 6"



Chain-nose Plier
With Serrations

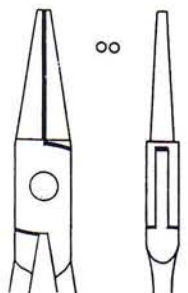


260-SD-5

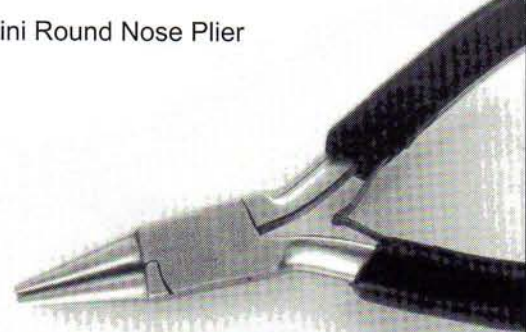
- A. 35 mm. 1 3/4"
- B. 7.5 mm. .3"
- D. 2 mm. .08"
- E. 1.5 mm. .06"
- 150 mm. / 6"

260-SD-6 **260-SD-6L**

- A. 39.5 mm. 1 7/16"
- B. 7.5 mm. .3"
- D. 2 mm. .08"
- E. 2 mm. .08"
- 150 mm. / 6"
- A. 50 mm. 2"
- B. 7.5 mm. .3"
- D. 2 mm. .08"
- E. 2 mm. .08"
- 160 mm / 6 1/4"



Mini Round Nose Plier



143-S Smooth Jaws



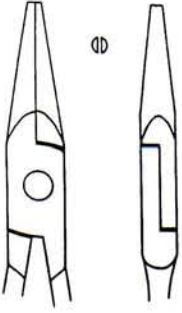

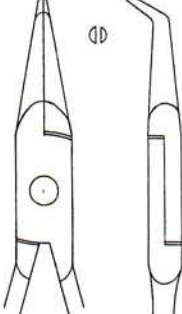


143-SD Serrated Jaws

- A. 24 mm. .95"
- B. 6 mm. .235"
- D. 2 mm. .08"
- E. 1 mm. .04"
- 120 mm. / 4 3/4"

243-S Long Handle/Smooth Jaws

243-SD Long Handle/Serrated Jaws
140 mm. / 5 1/2"

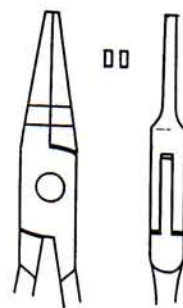
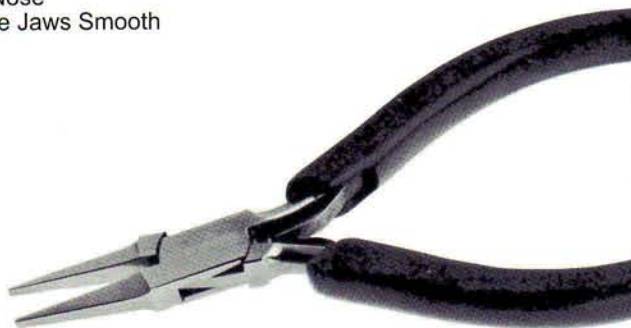
2/1 SIPEL DURA/NADIUM LINE

	<p>90° Angle Needle Nose Plier/Radius Inside Jaws smooth</p> 	<p>104</p> <p>A. 51.0 mm. 2.010'' A. + 8.0 mm. .315'' B. 7.0 mm. .275'' D. 1.5 mm. .060'' E. 1.5 mm. .060''</p>
	<p>Long Narrow Chain Nose Plier/Radius Inside Jaws smooth</p> 	<p>111</p> <p>A. 30.0 mm. 1.180'' B. 6.5 mm. .257'' D. 1.5 mm. .060'' E. 1.5 mm. .060''</p>
	<p>Long Narrow Chain Nose Plier/Inside Jaws serrated</p> 	<p>111/D</p> <p>A. 30.0 mm. 1.180'' B. 6.5 mm. .257'' D. 1.5 mm. .060'' E. 1.5 mm. .060''</p>
	<p>60° Angle curved tip chain nose pliers/Radius Inside Jaws smooth</p> 	<p>121</p> <p>A. 11.5 mm. .455'' A. + 8.0 mm. .315'' B. 6.5 mm. .257'' D. 1.5 mm. .060'' E. 1.0 mm. .039''</p>
	<p>Mini Curved Tip Chain Nose Plier/Radius Inside Jaws Smooth</p> 	<p>129</p> <p>A. 24.0 mm. .945'' A. + 9.0 mm. .355'' B. 6.5 mm. .257'' D. 1.5 mm. .060'' E. 1.5 mm. .060''</p>

142

Mini Flat Nose
Plier/Inside Jaws Smooth

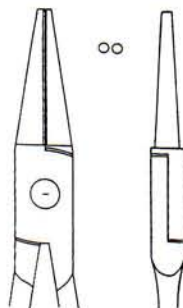
- A. 23.0 mm. .906"
- B. 6.0 mm. .235"
- D. 1.0 mm. .039"
- E. 2.5 mm. .098"



143

Mini Round Nose
Plier/Inside Jaws Smooth

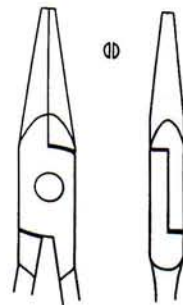
- A. 23.0 mm. .906"
- B. 6.0 mm. .235"
- D. 1.5 mm. .060"
- E. 1.0 mm. .039"



144

Mini Long Narrow Chain
Nose Plier/Inside Jaws
Smooth

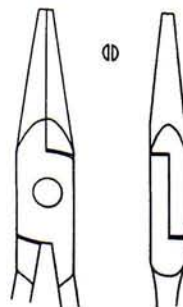
- A. 23.0 mm. .906"
- B. 6.0 mm. .235"
- D. 1.0 mm. .039"
- E. 1.0 mm. .039"



144/A

Mini Chain Nose
Plier/Radiused/Inside Jaws
Smooth

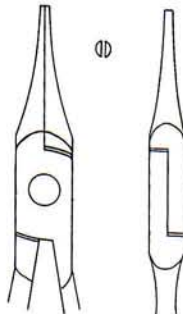
- A. 23.0 mm. .906"
- B. 6.0 mm. .235"
- D. 1.0 mm. .039"
- E. 1.0 mm. .039"



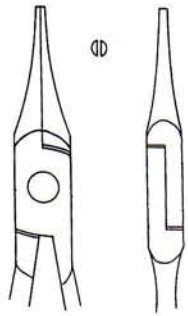
147

Mini Needle Nose
Plier/Radiused/Inside Jaws
Smooth

- A. 23.0 mm. .906"
- B. 6.0 mm. .235"
- D. 1.0 mm. .039"
- E. 1.2 mm. .047"



2/3 SIPEL DURA/NADIUM LINE

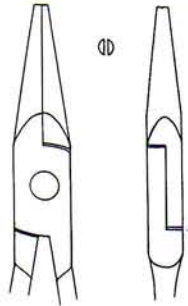


Mini Needle Nose
Plier/Inside Jaws Serrated

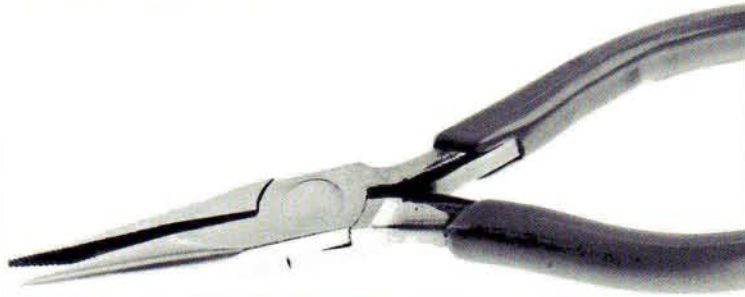


147/D

- A. 23.0 mm. .906"
- B. 5.0 mm. .197"
- D. 1.0 mm. .039"
- E. 1.2 mm. .047"



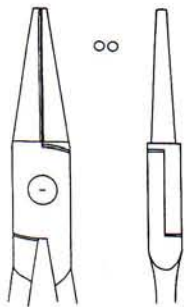
Extra Long Chain Nose
Plier/Inside Jaws Serrated



120

- A. 45.0 mm. 1.775"
- B. 8.5 mm. .335"
- D. 2.5 mm. .098"
- E. 2.5 mm. .098"

165 mm. /6½"



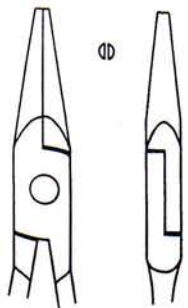
Long Round Nose Plier/Inside
Jaws Smooth



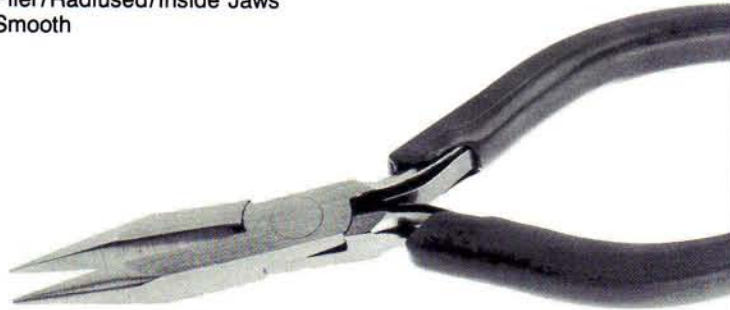
140

- A. 40.0 mm. 1.575"
- B. 8.0 mm. .315"
- D. 2.5 mm. .099"
- E. 2.0 mm. .078"

140 mm. /5½"



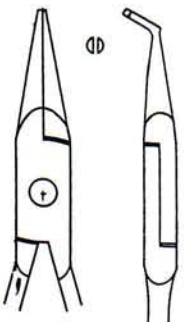
Extra Long Chain Nose
Plier/Radiused/Inside Jaws
Smooth



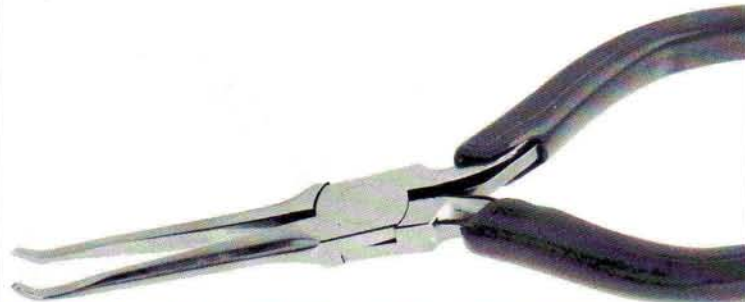
149/A

- A. 40.0 mm. 1.575"
- B. 8.0 mm. .315"
- D. 1.5 mm. .060"

140 mm. /5½"




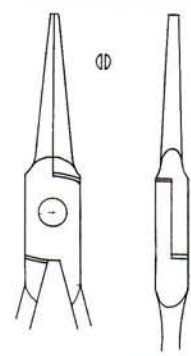
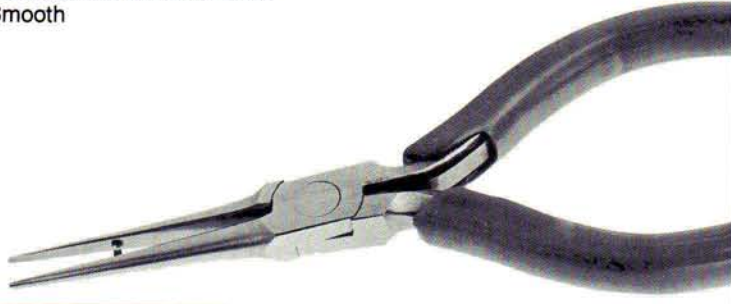
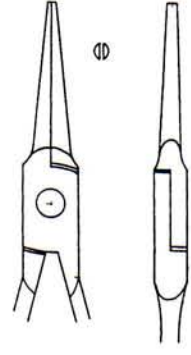

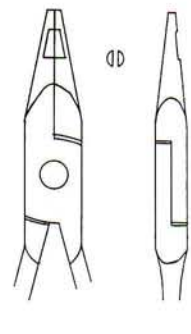

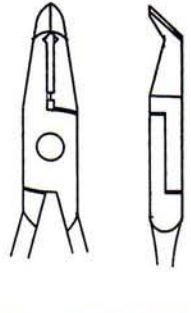
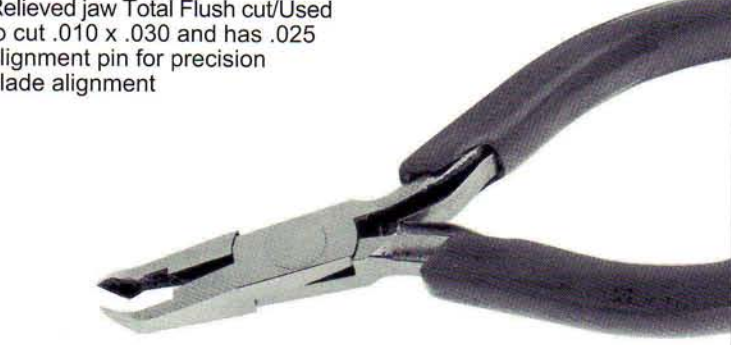
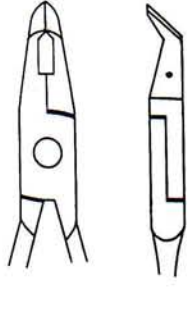
45° Angle Needle Nose Plier



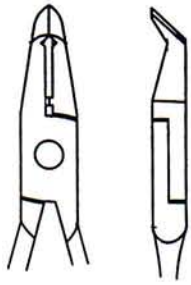
114/A

- A. 51.0 mm. 2.010"
- A. + 8.5 mm. .335"
- B. 6.5 mm. .257"
- D. 3.0 mm. .118"
- E. 1.2 mm. .047"

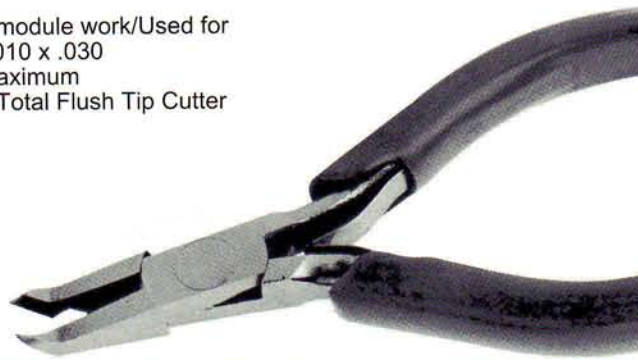
146 mm. /5¾"

<p>125</p> <p>A. 43.0 mm. 1.695" B. 8.0 mm. .315" D. 1.5 mm. .060" E. 1.5 mm. .060"</p> <p>143 mm. / 5 5/8"</p>	<p>Needle Nose Plier/Inside Jaws Serrated</p> 	
<p>125/A</p> <p>A. 43.0 mm. 1.695" B. 8.0 mm. .315" D. 1.5 mm. .060" E. 1.5 mm. .060"</p> <p>143mm. / 5 5/8"</p>	<p>Needle Nose Plier/Radiused/Inside Jaws Smooth</p> 	
<p>127</p> <p>A. 28.0 mm. 1.103" B. 10.0 mm. .393" C. 8.0 mm. .315" D. 1.5 mm. .060" E. 1.5 mm. .060"</p> <p>140mm. / 5 1/2"</p>	<p>Multi-purpose Plier and Cutter/Inside Jaws Serrated,</p> 	
<p>157</p> <p>A. 18.0 mm. .709" B. 5.0 mm. .197" C. 3.0 mm. .118"</p> <p>115 mm. / 4 1/2"</p>	<p>Mini Angulated Total Flush Tip Cutter</p> 	
<p>171</p> <p>A. 18.0 mm. .709" B. 7.0 mm. .275" C. 8.0 mm. .315"</p> <p>115 mm. / 4 1/2"</p>	<p>Relieved jaw Total Flush cut/Used to cut .010 x .030 and has .025 alignment pin for precision blade alignment</p> 	

2/5 SIPEL DURA/NADIUM LINE



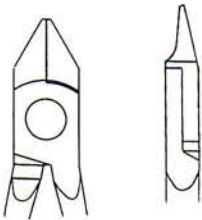
Ideal for module work/Used for Cutting .010 x .030 ribbon/Maximum Visibility/Total Flush Tip Cutter



190

A. 21.0 mm. .827"
B. 7.5 mm. .296"
C. 8.0 mm. .315"

115 mm. /4½"



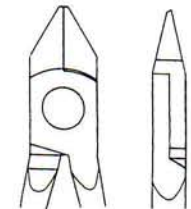
Diagonal cutter. Conical shape of nose Total Flush cut. Relieved Head



176

A. 12.0 mm. .472"
B. 5.0 mm. .197"
C. 12.0 mm. .472"
D. 1.0 mm. .039"

110 mm. /4¼"



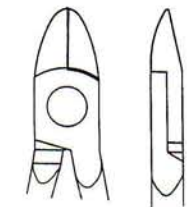
Diagonal Cutter. Conical shape of nose. Very pointed. Total Flush cut



177

A. 12.0 mm. .472"
B. 5.0 mm. .197"
C. 12.0 mm. .472"
D. 1.0 mm. .039"

110 mm. /4¼"



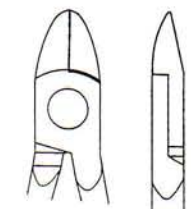
Diagonal cutter. Total Flush cut



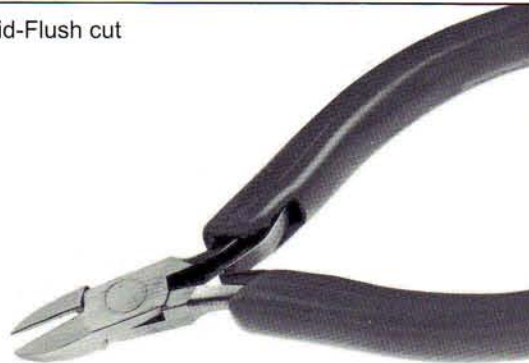
179

A. 11.0 mm. .433"
B. 5.5 mm. .215"
C. 11.0 mm. .433"

110 mm. /4¼"




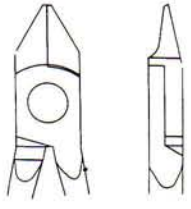

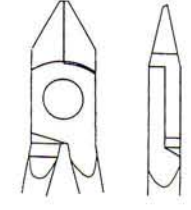

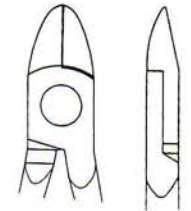

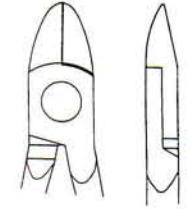
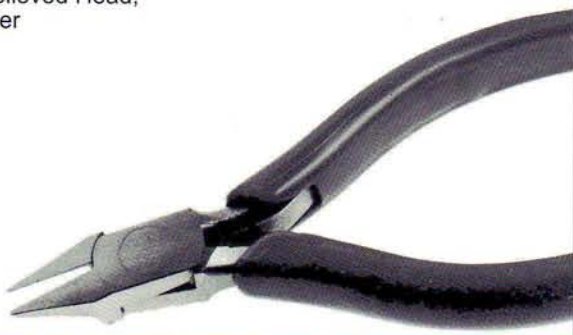
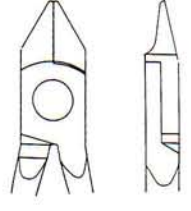
Same as above. Mid-Flush cut



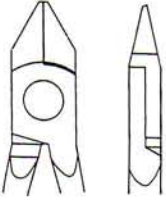

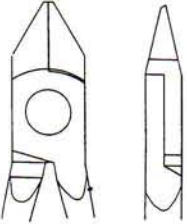

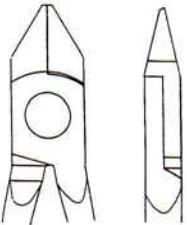

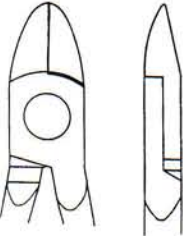

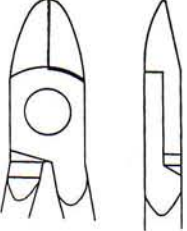

180


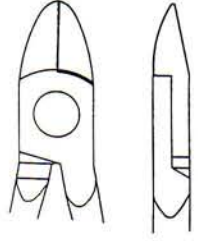
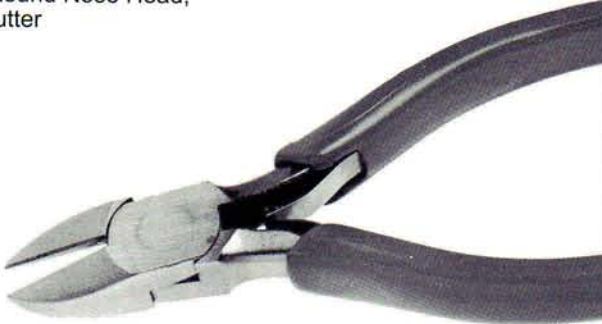
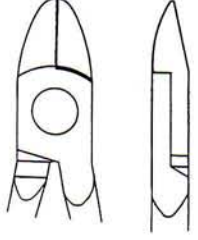

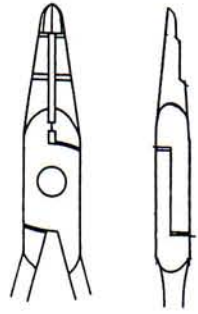

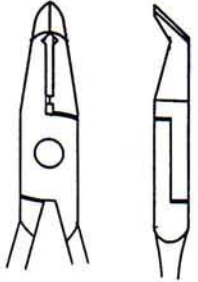

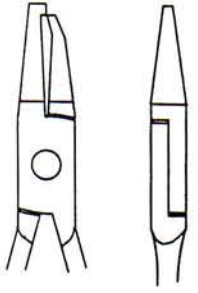
A. 11.0 mm. .433"
B. 5.5 mm. .215"
C. 11.0 mm. .433"

110 mm. /4¼"

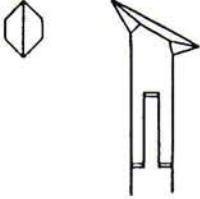
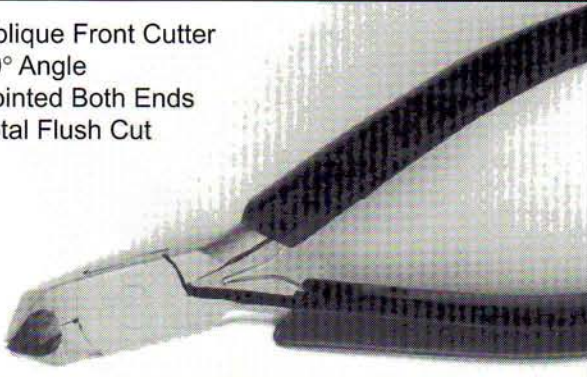
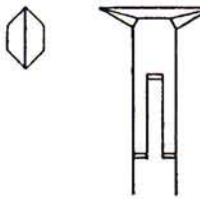
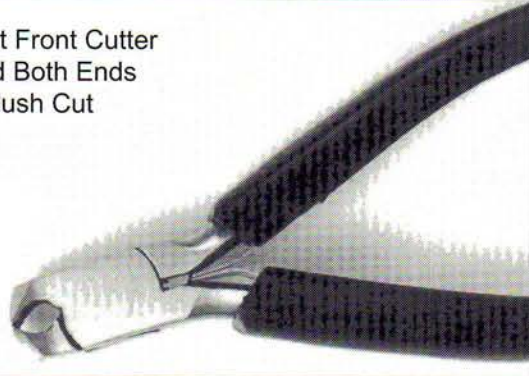
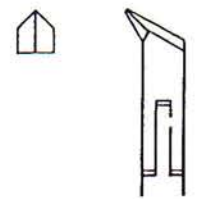
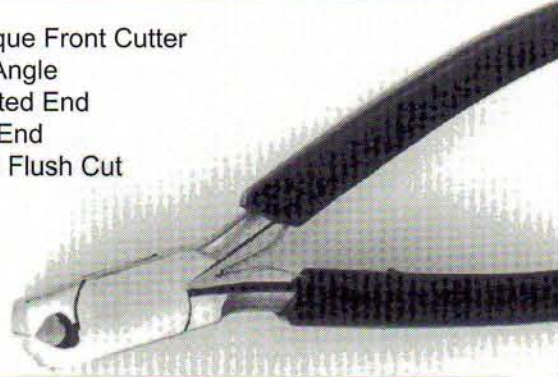
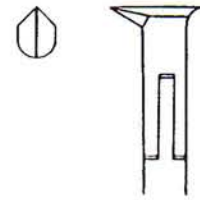
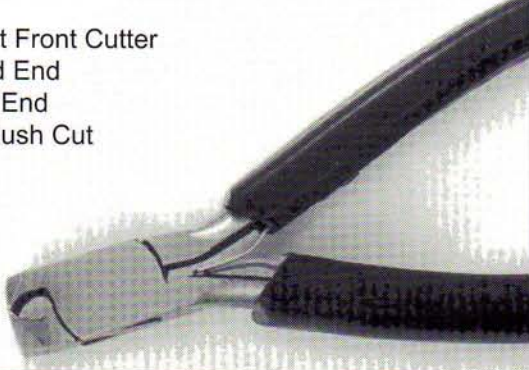
<h2>192</h2> <p>A. 12.5 mm. .492" B. 6.0 mm. .235" C. 12.5 mm. .492" D. 0.7 mm. .027"</p> <p>110mm. /4¼"</p>	<p>Relieved Head, Total Flush Cutter</p> 	
<h2>195</h2> <p>A. 12.5 mm. .492" B. 6.0 mm. .235" C. 12.5 mm. .492" D. 0.7 mm. .027"</p>	<p>Tapered Head, Total Flush Cutter</p> 	
<h2>197</h2> <p>A. 11.0 mm. .433" B. 6.5 mm. .257" C. 11.0 mm. .433"</p> <p>110mm. /4¼"</p>	<p>Small Round Nose Head, Mid-Flush Cutter</p> 	
<h2>199</h2> <p>A. 11.0 mm. .433" B. 6.5 mm. .257" C. 11.0 mm. .433"</p> <p>110mm. /4¼"</p>	<p>Round Nose Head, Total Flush Cutter</p> 	
<h2>184</h2> <p>A. 15.0 mm. .591" B. 8.5 mm. .335" C. 15.0 mm. .591" D. 1.5 mm. .060"</p> <p>120mm. /4¾"</p>	<p>Medium/Size Relieved Head, Total Flush Cutter</p> 	

2/7 SIPEL DURA/NADIUM LINE

	<p>Small Size Tapered Head, Total Flush Cutter</p> 	<p>186</p> <p>A. 16.0 mm. .630" B. 8.5 mm. .335" C. 16.0 mm. .630" D. 2.0 mm. .078"</p> <p>120mm. /4¾"</p>
	<p>Medium Size Tapered Head, Total Flush Cutter</p> 	<p>186-5"</p> <p>A. 21.0 mm. .827" B. 8.5 mm. .335" C. 21.0 mm. .827" D. 2.5 mm. .098"</p> <p>127 mm. /5"</p>
	<p>Large Size Tapered Head, Total Flush Cutter</p> 	<p>186-6"</p> <p>A. 21.0 mm. .827" B. 9.0 mm. .355" C. 21.0 mm. .827" D. 2.5 mm. .098"</p> <p>152mm. /6"</p>
	<p>Round Nose Head Mid-Flush Cutter</p> 	<p>152</p> <p>A. 16.0 mm. .630" B. 7.5 mm. .296" D. 16.0 mm. .630" E. 2.0 mm. .078"</p> <p>115 mm. /4½"</p>
	<p>Small Size Round Nose Head, Mid-Flush Cutter</p> 	<p>196</p> <p>A. 16.0 mm. .650" B. 8.0 mm. .315" C. 16.5 mm. .650"</p> <p>120mm. /4¾"</p>

<p>196-5''</p> <p>A. 19.0 mm. .747'' B. 9.0 mm. .355'' C. 19.0 mm. .747''</p> <p>127 mm./5''</p>	<p>Medium Size Round Nose Head, Mid-Flush Cutter</p> 	
<p>196-6''</p> <p>A. 21.0 mm. .827'' B. 9.0 mm. .355'' C. 21.0 mm. .827''</p> <p>152 mm. /6''</p>	<p>Large Size Round Nose Head, Mid-Flush Cutter</p> 	
<p>215</p> <p>A. 20.0 mm. .788'' B. 6.0 mm. .235'' C. 7.0 mm. .275''</p> <p>115 mm./4½''</p>	<p>Tapered flat nose. Side Cutters at points for cuts in confined and limited areas Alignment pin between jaws/Total Flush Cut</p> 	
<p>219</p> <p>A. 19.0 mm. .709'' B. 6.0 mm. .235'' C. 6.0 mm. .235</p> <p>115 mm. /4½''</p>	<p>Mini Oblique Total Flush Tip Cutter</p> 	
<p>220</p> <p>A. 13.5 mm. .532'' B. 6.0 mm. .235'' C. 1.5 mm. .060'' D. 1.5 mm. .060''</p> <p>115 mm. /4½''</p>	<p>Flat Nose. Special cutters for soft wires.</p> 	

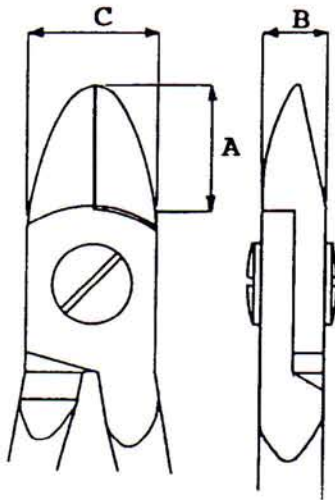
2/9 SIPEL DURA/NADIUM LINE

	<p>Oblique Front Cutter 60° Angle Pointed Both Ends Total Flush Cut</p> 	<p>172</p> <p>A. 10 mm. .40" B. 6 mm. .235" C. 18 mm. .71" 120 mm. / 4 3/4"</p>
	<p>Straight Front Cutter Pointed Both Ends Total Flush Cut</p> 	<p>168</p> <p>A. 6 mm. .235" B. 6 mm. .235" C. 17 mm. .67" 120 mm. / 4 3/4"</p>
	<p>Oblique Front Cutter 60° Angle Pointed End Flat End Total Flush Cut</p> 	<p>172C</p> <p>A. 10 mm. .40" B. 6 mm. .235" C. 14 mm. .55" 120 mm. / 4 3/4"</p>
	<p>Straight Front Cutter Pointed End Round End Total Flush Cut</p> 	<p>168R</p> <p>A. 6 mm. .235" B. 6 mm. .235" C. 14 mm. .55" 120 mm / 4 3/4"</p>

SIPEL OFFERS A CHOICE OF THREE DIFFERENT GRIPS ON ALL PLIERS AND CUTTERS IN THIS CATALOG.
See Introductory page of Stainless Steel Line

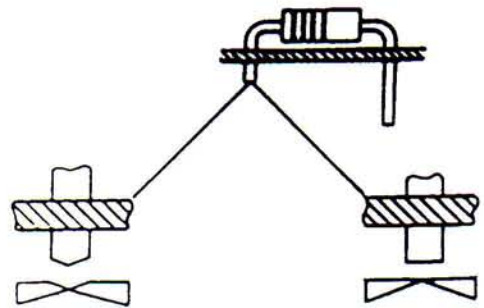
THE PRECISION SCREW SYSTEM

The TECHNICA Line cutters have a special screw which allows the noses to be perfectly aligned. This is obtained by a set up carried out by a high precision machine. If needed the cutter can be easily disassembled and sharpened.



CUT TYPES

SIPEL cutters are available with Mid-Flush or Total Flush cutting edges. See illustration that shows how these cuts vary. A Total Flush cutter transmits less shock but will not last as long as a Mid-Flush cutter.

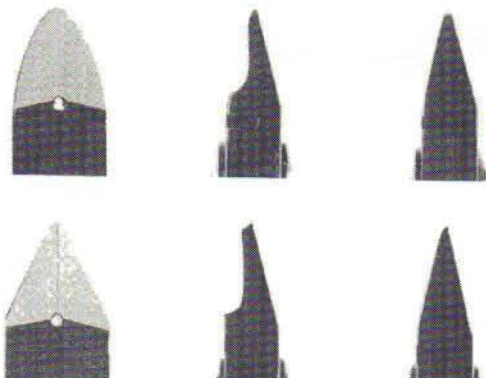


Mid-Flush Cut

Total Flush Cut

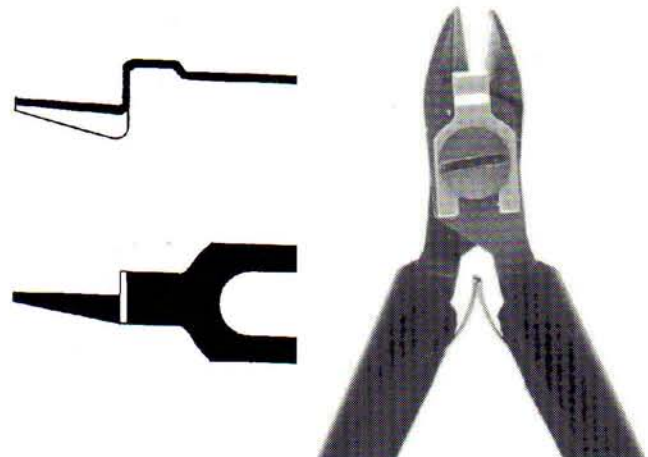
DESIGN AND SIZE

The selection of such a shape of design is determined by the wider range of cutting applications. The structure of the cutter is marked by higher quality of the material in the cutting edge which allows longer life with reference to standard cutters. TECHNICAL Line offers 3 sizes in different shapes.

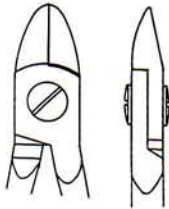
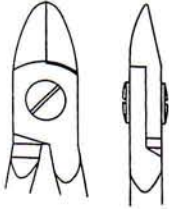
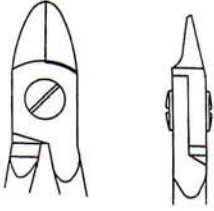
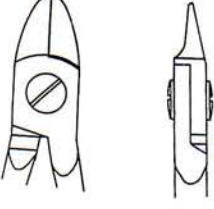
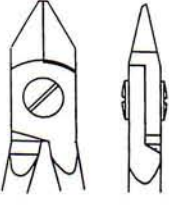



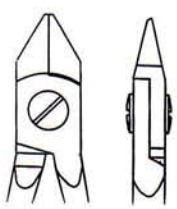

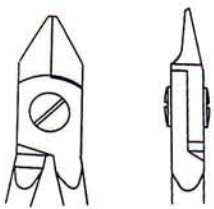

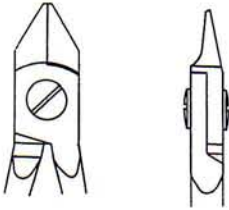

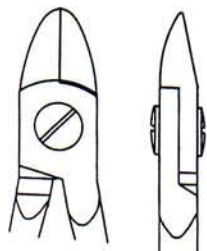

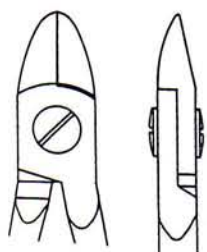
LEAD CATCH

Prevents the cut lead wire from falling into places not wanted. Available only on TECHNICA Line. Add "-W" to part number. Example: 1140-W

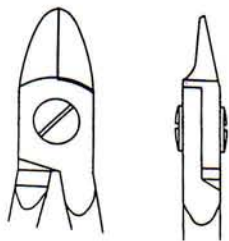


3/2 SIPEL TECHNICA LINE

	<p>Oval Head - Mid-Flush Cutter</p>	<p>1140 100mm. /4''</p>
	<p>Oval Head - Mini Total Flush Cutter</p>	<p>1141 100mm. /4''</p>
	<p>Oval and Relieved Head Mid-Flush Cutter</p>	<p>1140/A 100mm. /4''</p>
	<p>Oval and Relieved Head Mini Total Flush Cutter</p>	<p>1141/A 100mm. /4''</p>
	<p>Tapered Head - Mid-Flush Cutter</p>	<p>1140/B 100mm. /4''</p>

<p>1141/B</p> <p>100mm. /4''</p>	<p>Tapered Head - Mini Total Flush Cutter</p> 	
<p>1140/C</p> <p>100mm. /4''</p>	<p>Tapered and Relieved Head Mid-Flush Cutter</p> 	
<p>1141/C</p> <p>100mm. /4''</p>	<p>Tapered and Relieved Head Mini Total Flush Cutter</p> 	
<p>1150</p> <p>115mm. /4½''</p>	<p>Oval Head - Mid-Flush Cutter</p> 	
<p>1151</p> <p>115mm. /4½''</p>	<p>Oval Head - Small Total Flush Cutter</p> 	

3/4 SIPEL TECHNICA LINE

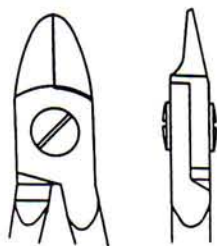


Oval and Relieved Head
Mid-Flush Cutter



1150/A

115mm. /4½"

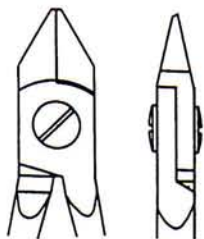


Oval and Relieved Head Small
Total Flush Cutter



1151/A

115mm. /4½"

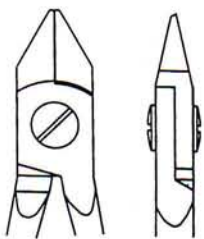


Tapered Head - Mid-Flush
Cutter



1150/B

115mm. /4½"

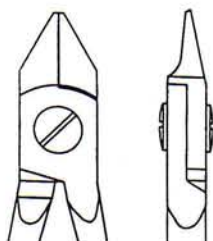


Tapered Head Small
Total Flush Cutter

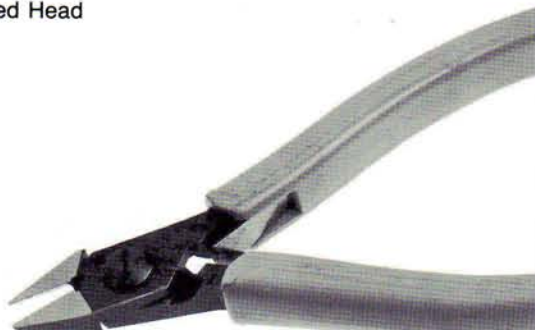


1151/B

115mm. /4½"


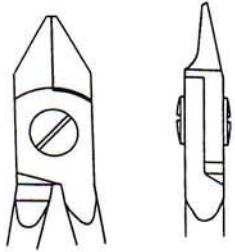

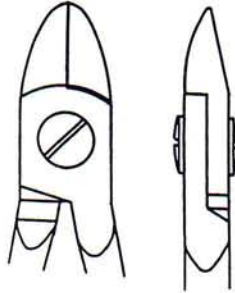

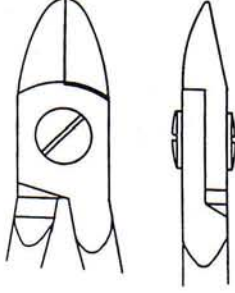

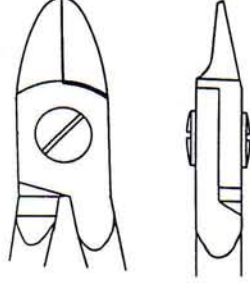

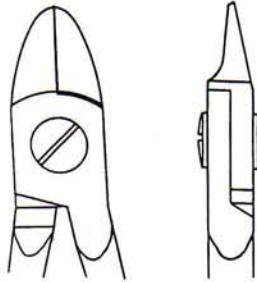


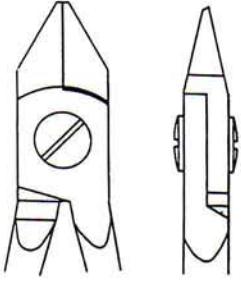

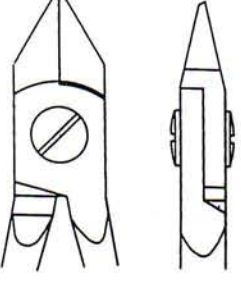

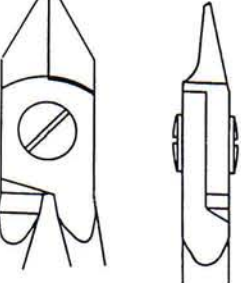
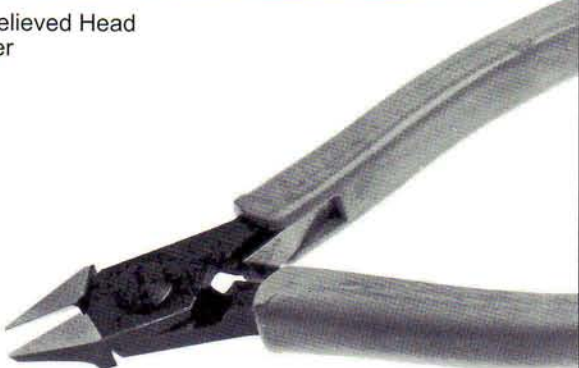
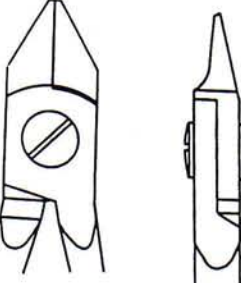

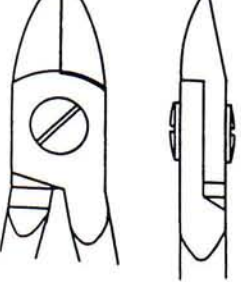

Tapered and Relieved Head
Mid-Flush Cutter



1150/C

115mm. /4½"

<p>1151/C</p> <p>115 mm. /4½"</p>	<p>Tapered and Relieved Head Small Total Flush Cutter</p> 	
<p>1160</p> <p>130 mm. /5"</p>	<p>Oval Head - Mid-Flush Cutter</p> 	
<p>1161</p> <p>130 mm. /5"</p>	<p>Oval Head Medium Total Flush Cutter</p> 	
<p>1160/A</p> <p>130 mm. /5"</p>	<p>Oval and Relieved Head Mid-Flush Cutter</p> 	
<p>1161/A</p> <p>130 mm. /5"</p>	<p>Oval and Relieved Head, Medium Total Flush Cutter</p> 	

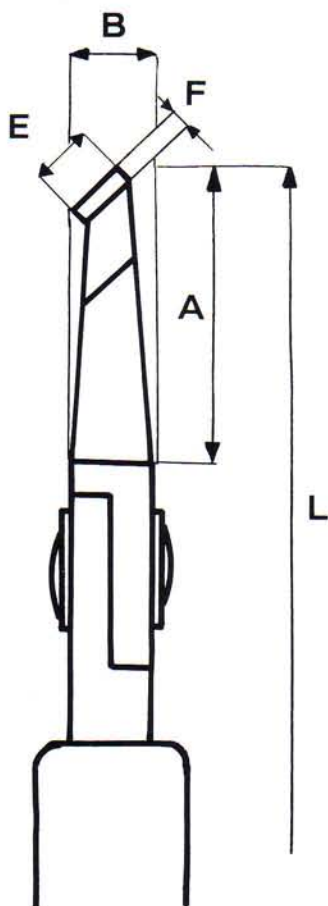
	<p>Tapered Head - Mid-Flush Cutter</p> 	<p>1160/B 130 mm. /5''</p>
	<p>Tapered Head Medium Total Flush Cutter</p> 	<p>1161/B 130 mm. /5''</p>
	<p>Tapered and Relieved Head Mid-Flush Cutter</p> 	<p>1160/C 130 mm. /5''</p>
	<p>Tapered and Relieved Head Medium Total Flush Cutter</p> 	<p>1161/C 130 mm. /5''</p>
	<p>Oval Head - For cutting piano wire</p> 	<p>1160/P 130 mm. /5''</p>



PLIERS - CUTTERS SPECIAL APPLICATIONS FROM SIPEL

Sipel has a custom shop with more than 25 years experience just to take care of special requests. Sipel has the answer to your application problems. Call or write for a free estimate.

Dimension Scale For All Specials In This Section



PRECISION SCREW SYSTEM

All specials come with a special screw which allows the noses to be perfectly aligned. This is obtained by a set up carried out by a high precision machine.

Cut And Strip

1015B 140mm - 5 1/2"

A. 30mm - 1.181"

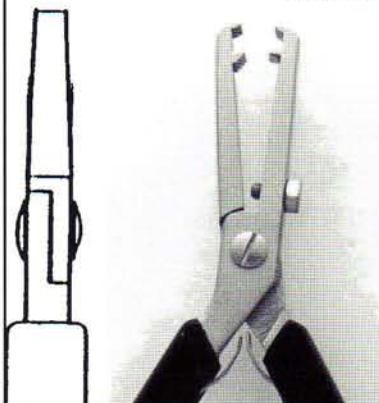
B. 6.5mm - .257"

E. 6.5mm - .257"

F.* 5mm - .200"

*standard

Other sizes available on request



Soft Brass Inserts

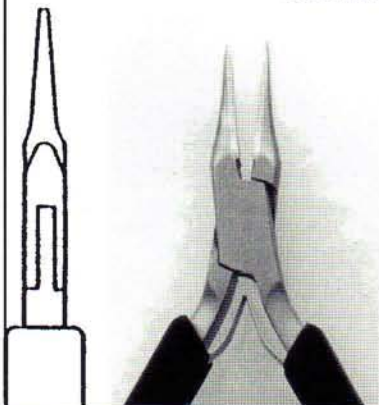
147 BRASS 140mm - 5 1/2"

A. 25mm - 1"

B. 6.5mm - .257"

D. 1.5mm - .060"

E. 1mm - .039"



Nibbler - Cut and Catch

5555 140mm - 5 1/2"

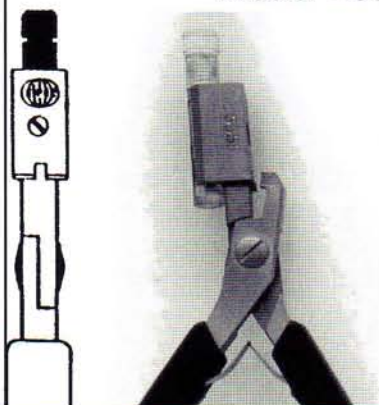
A. 28mm - 1.103"

B. 6.5mm - .257"

E. 10mm - .333"

Ø. 2 x 2mm - .078 x .078"

Other size cutter
available on request.



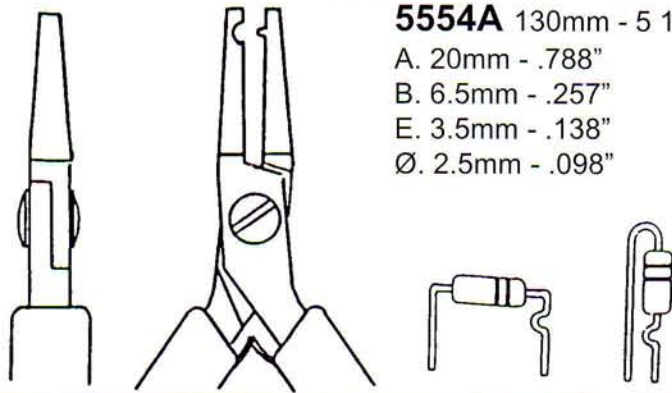
OTHER MODELS AVAILABLE UPON REQUEST

Your problems are Sipel's opportunities to discover solutions!

SPECIAL APPLICATIONS

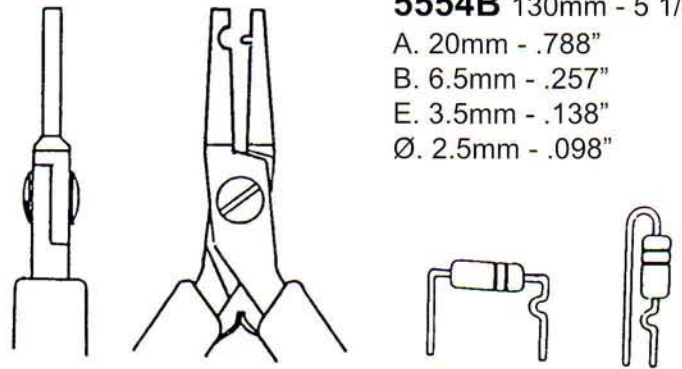
Stress Relief Forming Plier

5554A 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 Ø. 2.5mm - .098"



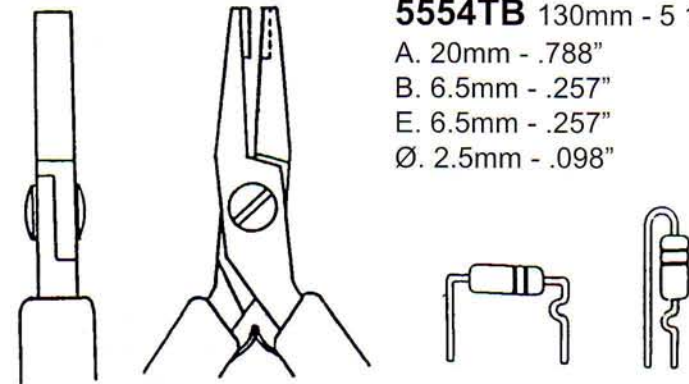
Stress Relief Forming Plier

5554B 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 Ø. 2.5mm - .098"



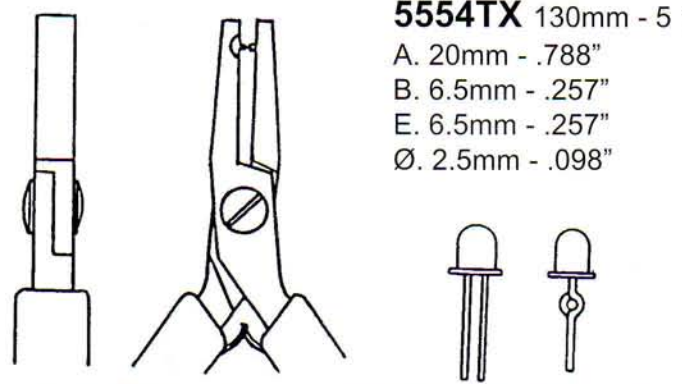
Stress Relief Forming Plier

5554TB 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 6.5mm - .257"
 Ø. 2.5mm - .098"



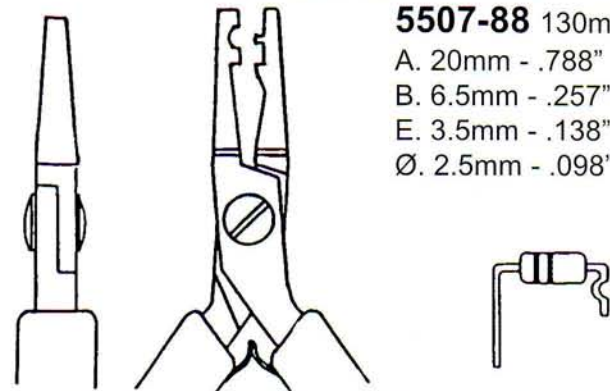
Stress Relief Forming Plier

5554TX 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 6.5mm - .257"
 Ø. 2.5mm - .098"



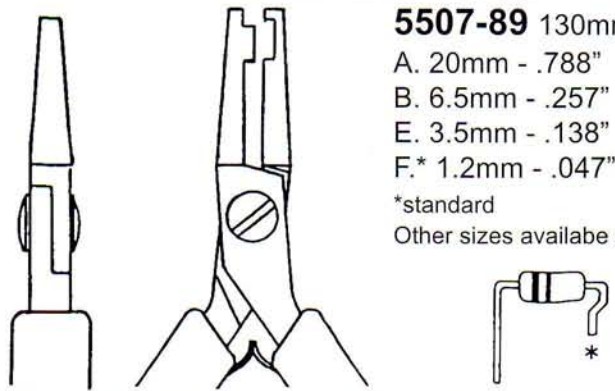
Stress Relief Shear Cutter

5507-88 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 Ø. 2.5mm - .098"



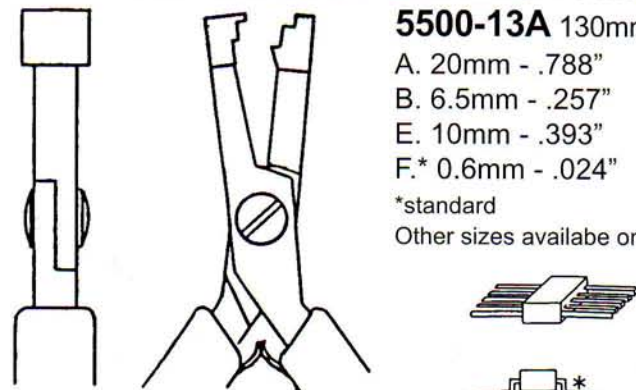
Shear Cutter Bender

5507-89 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 1.2mm - .047"
 *standard
 Other sizes available on request



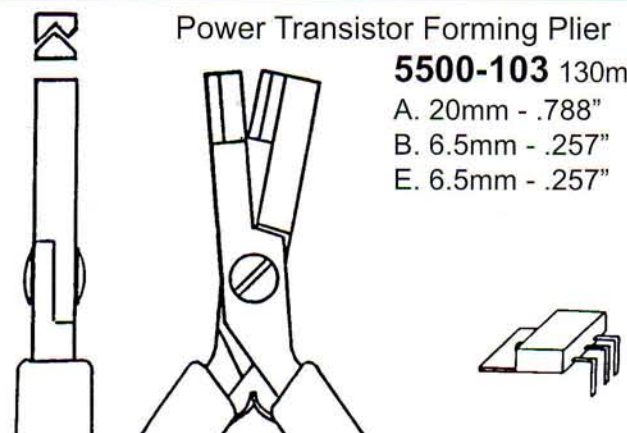
Flat Pack Reflow Lead Cutter Former

5500-13A 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 10mm - .393"
 F.* 0.6mm - .024"
 *standard
 Other sizes available on request



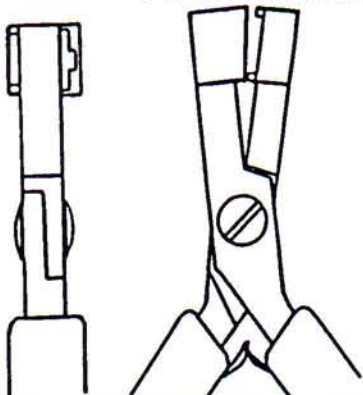
Power Transistor Forming Plier

5500-103 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 6.5mm - .257"



SPECIAL APPLICATIONS

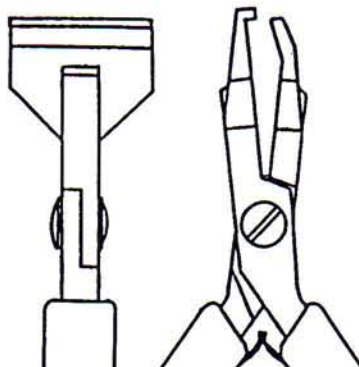
Power Transistor Forming Plier



5500-104 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 6.5mm - .257"
 F1.* 2mm - .078"
 F2.* 3mm - .118"
 *standard
 Other sizes available on request

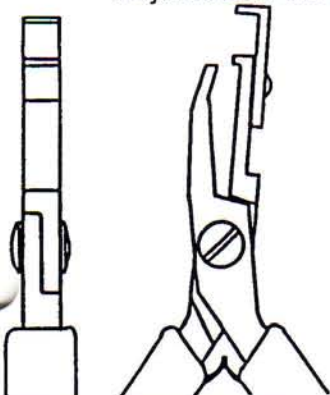


Multi-Lead Shear Cutter

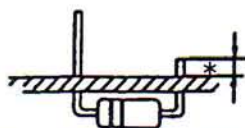


5509 130mm - 5 1/4"
 A. 25mm - 1"
 B. 6.5mm - .257"
 E. 20mm - .788"
 F.* 1.5mm - .060"
 *standard
 Other sizes available on request

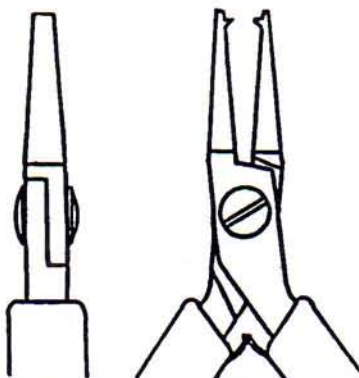
Adjustable Anti-Shock Shear Cutter



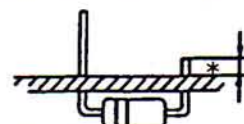
5530-15 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 6.5mm - .257"
 F.* 1.5 to 7mm - .060"-.275"
 *standard
 Other sizes available on request



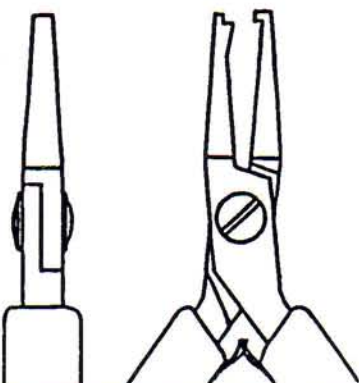
Transverse Stand Off Cutter



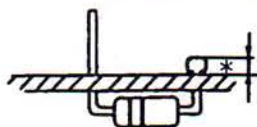
5530C 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 1.5mm - .060"
 *standard
 Other sizes available on request



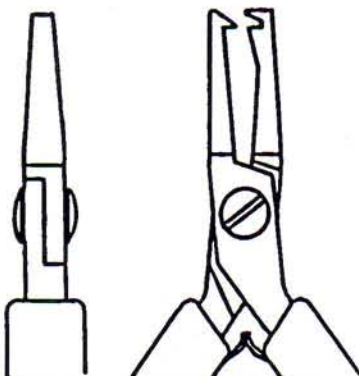
Cutter and Swager



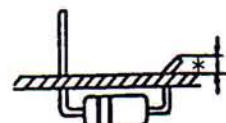
5530D 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 1mm - .039"
 *standard
 Other sizes available on request



Shear Cutter Bender



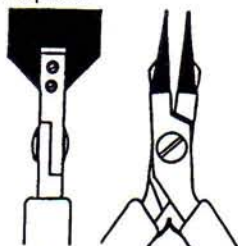
5530G 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 2.5mm - .098"
 *standard
 Other sizes available on request



Lead Straightening Plier

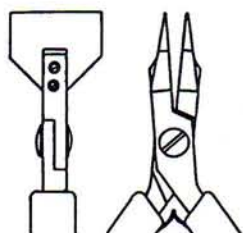
5508 - ESD

Most Popular



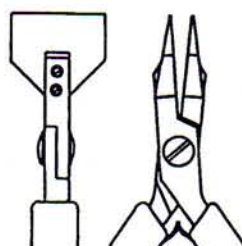
TIP 5508 - ESD
 (BLACK)

5608 - DELRIN



TIP 5608 - DELRIN
 (WHITE)

5508 - STEEL



TIP 5508
 (STEEL)

130mm - 5 1/4"
 A. 25mm - 1"
 B. 6.5mm - .257"
 E. 25mm - 1"

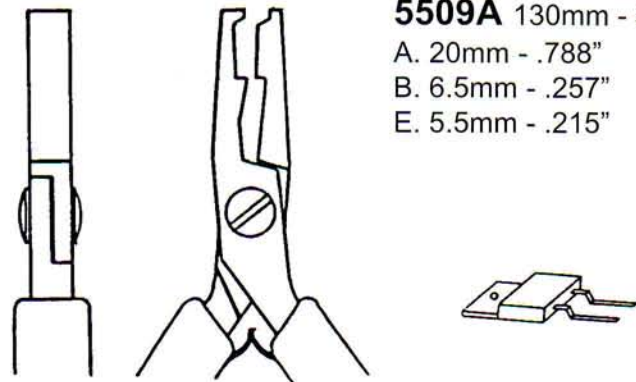


All tips are interchangeable.

SPECIAL APPLICATIONS

Shear Cutter Bender

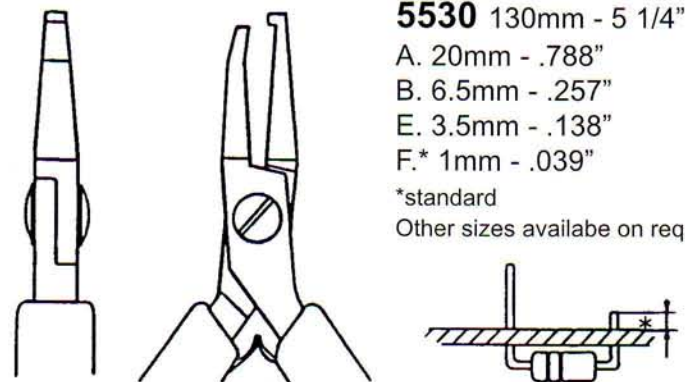
5509A 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 5.5mm - .215"



Anti-Shock Shear Cutter

5530 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 1mm - .039"

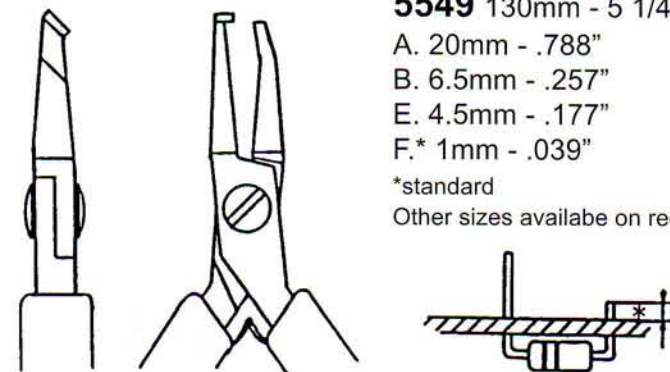
*standard
 Other sizes available on request



Left-Handed 45° Angle Anti-Shock Shear Cutter

5549 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 4.5mm - .177"
 F.* 1mm - .039"

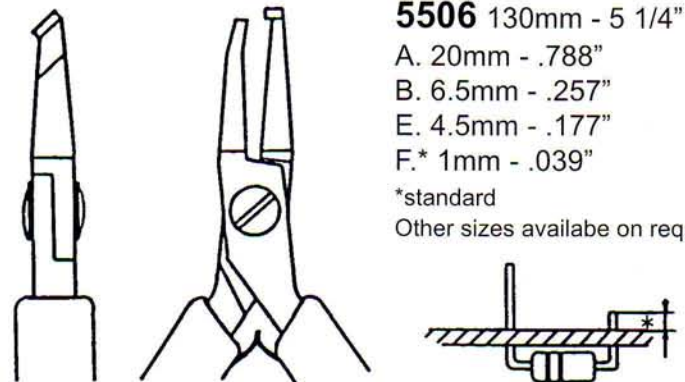
*standard
 Other sizes available on request



Right-Handed 45° Angle Anti-Shock Shear Cutter

5506 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 4.5mm - .177"
 F.* 1mm - .039"

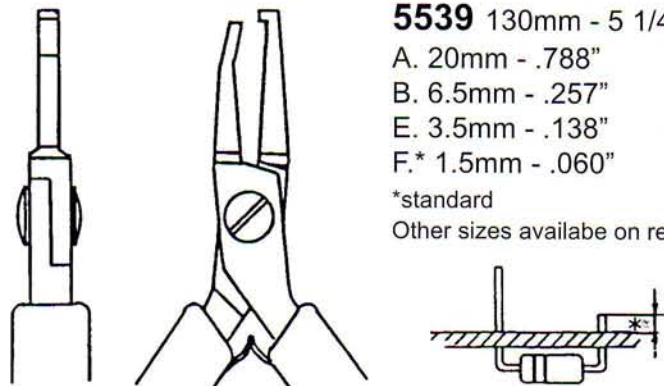
*standard
 Other sizes available on request



Anti-Shock Shear Cutter

5539 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 1.5mm - .060"

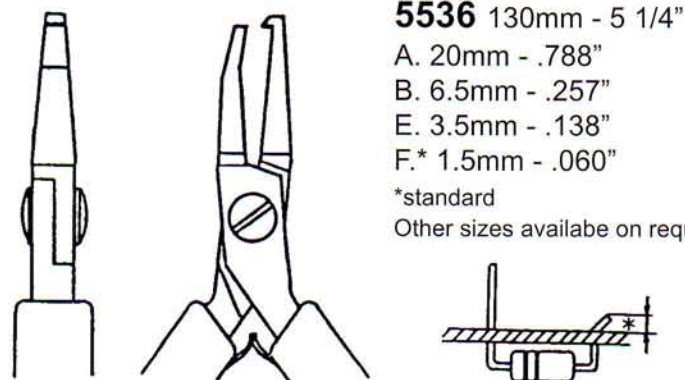
*standard
 Other sizes available on request



Shear Cutter Bender

5536 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 1.5mm - .060"

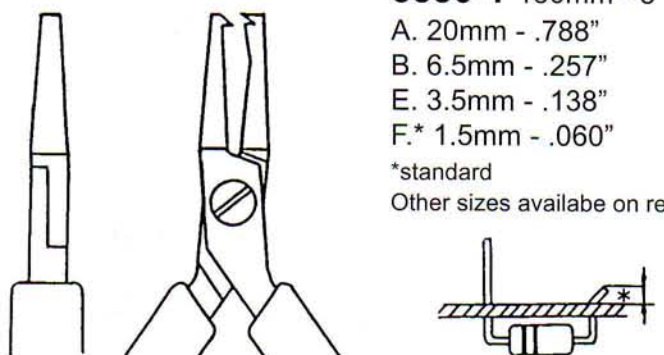
*standard
 Other sizes available on request



Shear Cutter Bender

5530-1 130mm - 5 1/4"
 A. 20mm - .788"
 B. 6.5mm - .257"
 E. 3.5mm - .138"
 F.* 1.5mm - .060"

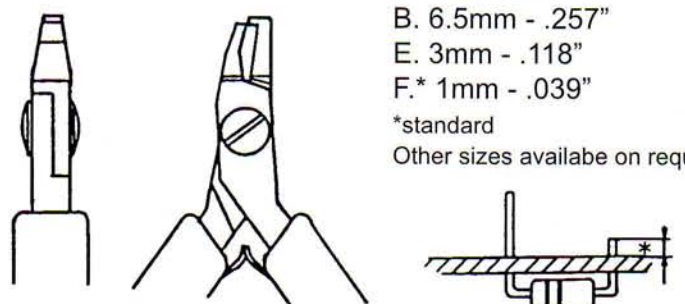
*standard
 Other sizes available on request



Anti-Shock Shear Cutter

5430 110mm - 4 1/4"
 A. 10mm - .393"
 B. 6.5mm - .257"
 E. 3mm - .118"
 F.* 1mm - .039"

*standard
 Other sizes available on request



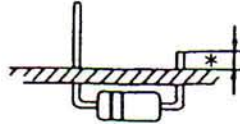
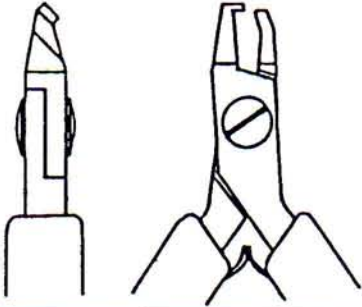
SPECIAL APPLICATIONS

Left-Handed 45° Angle Anti-Shock Shear Cutter

5449 110mm - 4 1/4"

- A. 19mm - .748"
- B. 6.5mm - .257"
- E. 3mm - .118"
- F.* 1mm - .039"

*standard
Other sizes available on request

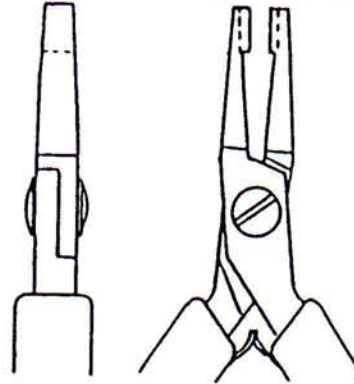


Insertion, Extraction Plier

5501 130mm - 5 1/4"

- A. 20mm - .788"
- B. 6.5mm - .257"
- E. 4mm - .157"
- Ø. 3mm - .118"

Inside diameter is
3mm (.118")
Can be modified to
customer's specification.

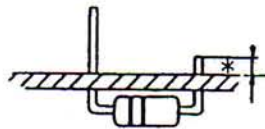
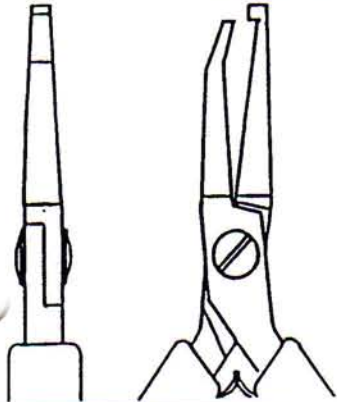


Anti-Shock Shear Cutter

5907 140mm - 5 1/2"

- A. 30mm - 1.181"
- B. 6.5mm - .257"
- E. 3.5mm - .138"
- F.* 1mm - .039"

*standard
Other sizes available on request

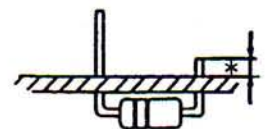
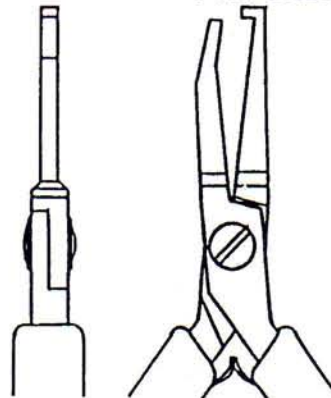


Anti-Shock Shear Cutter

5907-4 140mm - 5 1/2"

- A. 30mm - 1.181"
- B. 6.5mm - .257"
- E. 3.5mm - .138"
- F.* 0.8mm - .031"

*standard
Other sizes available on request

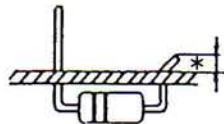
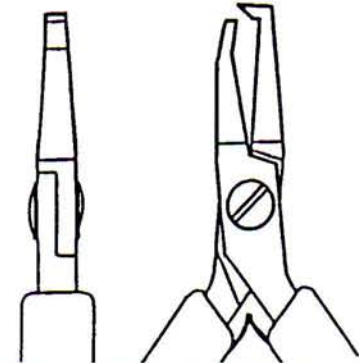


Shear Cutter Bender

5500-108 130mm - 5 1/4"

- A. 20mm - .788"
- B. 6.5mm - .257"
- E. 3.5mm - .138"
- F.* 1.5mm - .060"

*standard
Other sizes available on request

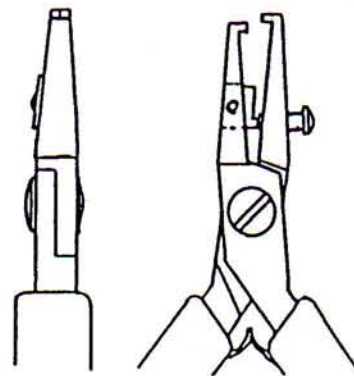


"V" Notched Stripper

5510A 130mm - 5 1/4"

- A. 20mm - .788"
- B. 6.5mm - .257"
- E. 3.5mm - .138"

18 to 30 AGW wire.
Interchangeable shear
cutting blade.



Soft Tip Straightening Plier

Jaws can be replaced

5531-ESD 140mm - 5 1/2"

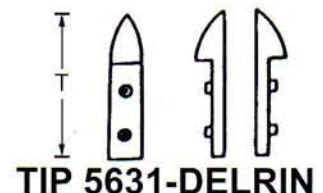
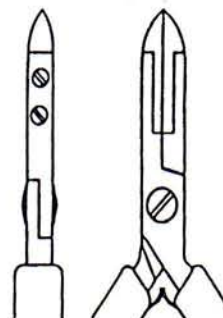
- A. 32mm - 1.260"
- B. 6.5mm - .257"
- T. 25mm - 1"



TIP 5531-ESD

5631-DELTRIN 140mm - 5 1/2"

- A. 32mm - 1.260"
- B. 6.5mm - .257"
- T. 25mm - 1"

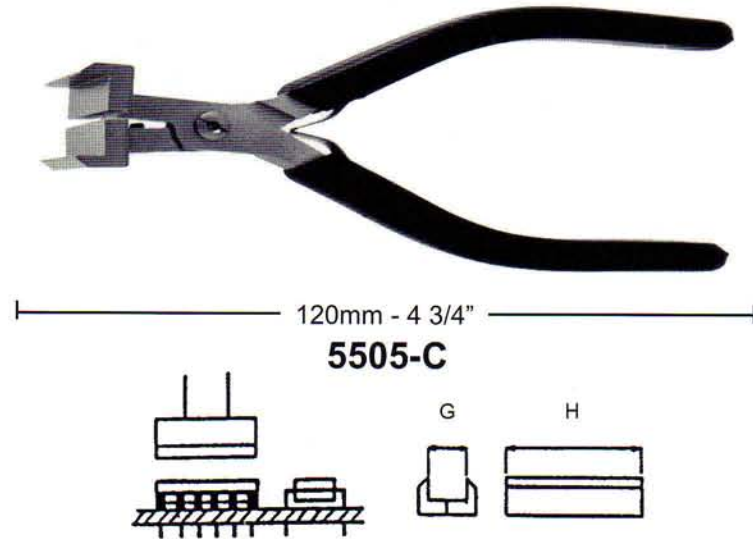


TIP 5631-DELTRIN

SIPEL IC INSERTION, EXTRACTION PLIERS

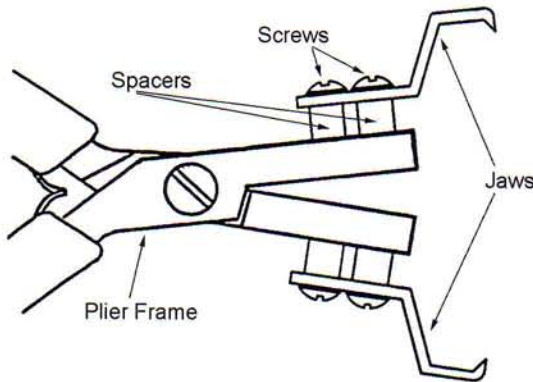
Part Number	# of Pins	G	H
5505-F	4	7.2mm - .283"	6.5mm - .257"
5505-D	6-8	7.2mm - .283"	9mm - .354"
5505-C	14-16	7.2mm - .283"	20mm - .788"
5505-J	20	7.2mm - .283"	25mm - .984"
5505	22	9mm - .354"	27mm - 1.062"
5505-A	24	14.5mm - .570"	32mm - 1.259"
5505-BG	28	14.5mm - .570"	36mm - 1.417"
5505-B	40	14.5mm - .570"	53mm - 2.086"
5805-H	48	27mm - 1.062"	60mm - 2.362"
5805	64	27mm - 1.062"	83mm - 3.267"

Designed For Handling
4 to 64 Pin IC Packages



EXTRACTION PLIERS

Designed For Extracting
Large DIL's. Comes With
Interchangeable Jaws

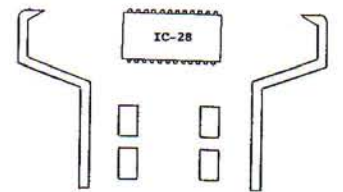


3505-28
Complete Tool for
28 Pins

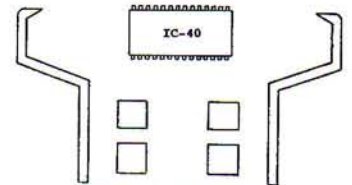
3505-48
Complete Tool for
48 Pins

3505-40
Complete Tool for
40 Pins

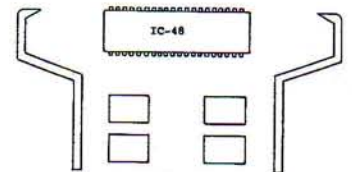
3505-3
Set of one complete tool
and all jaws, spacers,
and screws for the other
two sizes.



TIP 3505-28
Jaws and spacers for
28 Pins

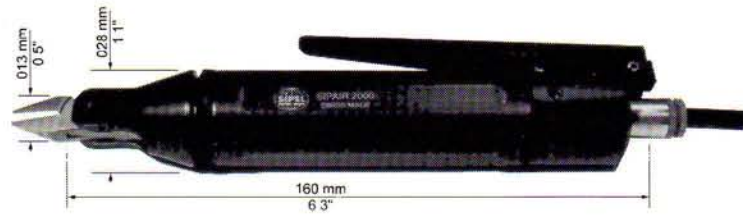


TIP 3505-40
Jaws and spacers for
40 Pins



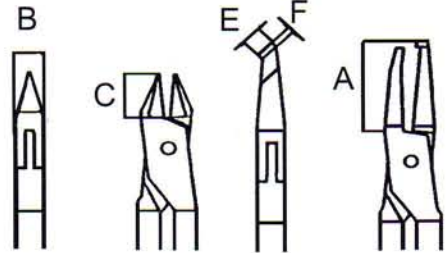
TIP 3505-48
Jaws and spacers for
48 Pins

SIPEL PNEUMATIC CUTTER for Electronics Assembly Lines **5/1**



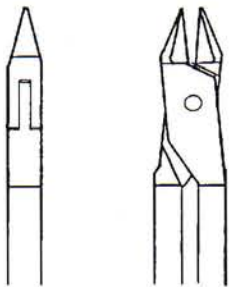
SIPAIR 2000

- Precision
- Lightweight
- Ergonomic
- Speeds up production



Cutting Heads for Pneumatic Cutter SIPAIR 2000

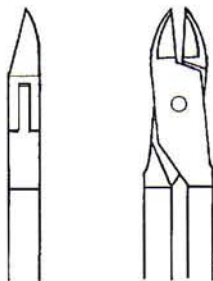
1595-P



A. = 11 mm. .431"
B. = 6.5 mm. .257"
C. = 11 mm. .431"

Medium Tapered Head
Cuts 20 AWG or Smaller Soft Wire
Total Flush Cut

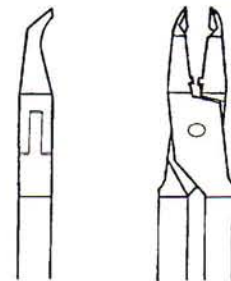
1597-P



A. = 11 mm. .431"
B. = 6 mm .235"
C. = 11 mm .431"

Medium Oval Head. Cuts 18AWG or
Smaller Soft Wire
Mid-Flush Cut

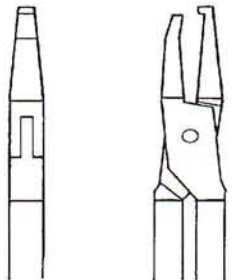
1582-P



A. = 20 mm .788"
B. = 6.5 mm .257"
C. = 7 mm .275"

45° Angle Cuts 22 AWG or Smaller Soft
Wire. Also .010" to .030" Nickel Ribbon.
Total Flush Cut

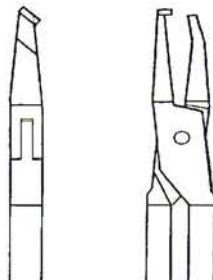
1530-P



A. = 20 mm. 788"
B. = 6.5 mm. 257"
E. = 3.5 mm. 138"
F. = 1 mm. 038"

Anti-Shock Shear Cut
Standard Cut Off is .040
Other Cut Offs on Request

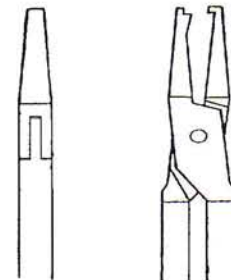
1549-P



A. = 20 mm. 788"
B. = 6.5 mm. 257"
E. = 4 mm. 137"
F. = 1.5mm .060"

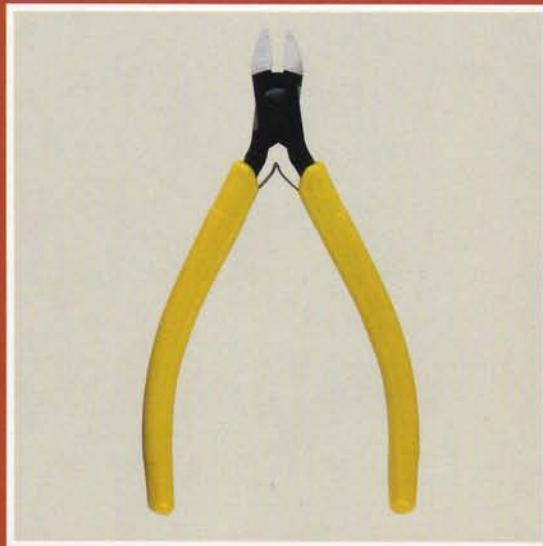
45° Shear Cutter For Right Handed
Standard Cut Off is .040
Left Handed Model Available

1530D-P



A. = 20 mm. 788"
B. = 6.5 mm .257"
E. = 3.5 mm.138"
F. = 0.8mm .032"

Cuts and Swages Lead
Standard Cut Off is .040



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INDUSTRIAL AUTOMATION COMPONENTS
EQUIPMENTS TO ELECTRONIC INDUSTRY
ESD-PROTECTION SYSTEMS

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