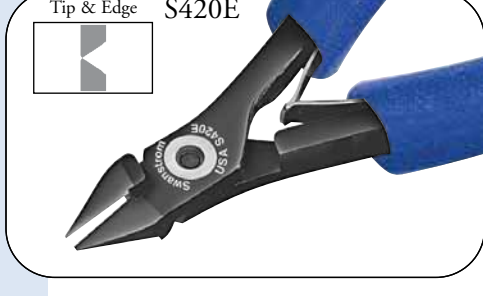
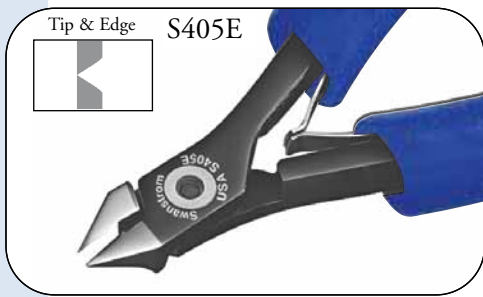
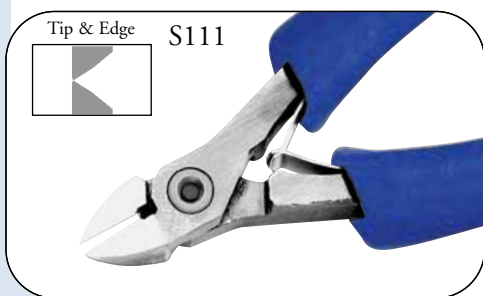




Swanstrom Super Diagonal Cutters

Super Diagonal Cutters



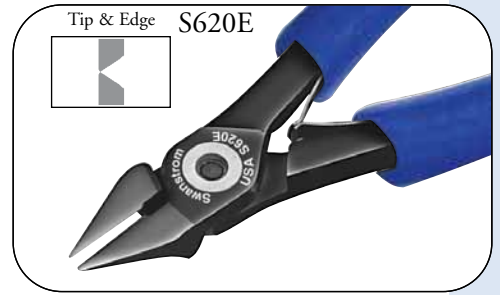
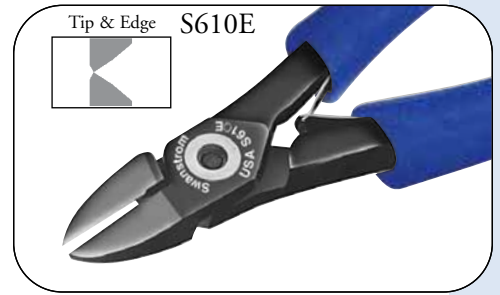
| Tool Numbers | | Description | | | | Overall Length | | Jaw Length | Cutter Length | Tip Width | Tip Thick |
|--------------|-------|-------------|------|------|------|----------------|------|------------|---------------|-----------|-----------|
| ergo | short | head | edge | | ergo | short | | | | | |
| S111E | S111 | 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 |
| S112E | S112 | 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 |
| S115E | S115 | 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 |
| S116E | S116 | T | SPRF | .000 | in | 5.65 | 4.25 | 0.53 | 0.40 | 0.17 | 0.03 |
| | | | | .000 | mm | 144 | 108 | 13 | 10 | 4 | 0.80 |
| S121E | S121 | TR | SPRF | .000 | in | 5.65 | 4.25 | 0.53 | 0.40 | 0.17 | 0.03 |
| | | | | .000 | mm | 144 | 108 | 13 | 10 | 4 | 0.80 |
| S405E | S405 | TS SN | SPRF | .000 | in | 5.46 | 4.61 | 0.34 | 0.21 | 0.25 | 0.03 |
| | | | | .000 | mm | 139 | 117 | 9 | 5 | 6 | 0.80 |
| S410E | S410 | OV | BSF | .007 | in | 5.65 | 4.80 | 0.53 | 0.40 | 0.23 | 0.03 |
| | | | | .180 | mm | 144 | 122 | 13 | 10 | 6 | 0.80 |
| S411E | S411 | 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 |
| S412E | S412 | OV | SPRF | .000 | in | 5.65 | 4.80 | 0.53 | 0.40 | 0.23 | 0.03 |
| | | | | .000 | mm | 144 | 122 | 13 | 10 | 6 | 0.80 |
| S413E | S413 | 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 |
| S414E | S414 | OS | SPRF | .000 | in | 5.65 | 4.80 | 0.53 | 0.40 | 0.23 | 0.03 |
| | | | | .000 | mm | 144 | 122 | 13 | 10 | 6 | 0.8 |
| S415E | S415 | 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 |
| S416E | S416 | T | SPRF | .000 | in | 5.65 | 4.80 | 0.53 | 0.40 | 0.17 | 0.03 |
| | | | | .000 | mm | 144 | 122 | 13 | 10 | 4 | 0.80 |
| S420E | S420 | TR | F | .004 | in | 5.65 | 4.80 | 0.53 | 0.40 | 0.17 | 0.03 |
| | | | | .100 | mm | 144 | 122 | 13 | 10 | 4 | 0.80 |
| S421E | S421 | TR | SPRF | .000 | in | 5.65 | 4.80 | 0.53 | 0.40 | 0.17 | 0.03 |
| | | | | .000 | mm | 144 | 122 | 13 | 10 | 4 | 0.80 |
| S422E | S422 | OV SU | SPRF | .000 | in | 5.63 | 4.78 | 0.50 | 0.38 | 0.20 | 0.03 |
| | | | | .000 | mm | 143 | 121 | 13 | 10 | 5 | 0.80 |
| S423E | S423 | OS TC | SPRF | .000 | in | 5.63 | 4.78 | 0.50 | 0.30 | 0.20 | 0.03 |
| | | | | .000 | mm | 143 | 121 | 13 | 8 | 5 | 0.80 |
| S430E | S430 | OV HL | BSF | .007 | in | 5.53 | 4.68 | 0.40 | 0.28 | 0.20 | 0.03 |
| | | Mini | | .180 | mm | 140 | 119 | 10 | 7 | 5 | 0.80 |
| S431E | S431 | OC HL | F | .004 | in | 5.53 | 4.68 | 0.40 | 0.28 | 0.20 | 0.03 |
| | | Mini | | .100 | mm | 140 | 119 | 10 | 7 | 5 | 0.80 |
| S432E | S432 | OV HL | BSF | .000 | in | 5.53 | 4.68 | 0.40 | 0.28 | 0.20 | 0.03 |
| | | Mini | | .000 | mm | 140 | 119 | 10 | 7 | 5 | 0.80 |
| S435E | S435 | T HL | SPRF | .000 | in | 5.51 | 4.66 | 0.38 | 0.26 | 0.19 | 0.03 |
| | | Mini | | .000 | mm | 140 | 118 | 10 | 7 | 5 | 0.80 |
| S510E | S510 | OV | BSF | .007 | in | 5.78 | 4.93 | 0.63 | 0.50 | 0.24 | 0.05 |
| | | | | .180 | mm | 147 | 125 | 16 | 13 | 6 | 1.30 |
| S511E | S511 | 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 |
| S512E | S512 | OV | SPRF | .000 | in | 5.78 | 4.93 | 0.63 | 0.50 | 0.24 | 0.05 |
| | | | | .000 | mm | 147 | 125 | 16 | 13 | 6 | 1.30 |
| S513E | S513 | 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 |
| S514E | S514 | OS | SPRF | .000 | in | 5.78 | 4.93 | 0.63 | 0.50 | 0.24 | 0.05 |
| | | | | .000 | mm | 147 | 125 | 16 | 13 | 6 | 1.30 |
| S515E | S515 | 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 |
| S516E | S516 | T | SPRF | .000 | in | 5.78 | 4.93 | 0.63 | 0.50 | 0.17 | 0.05 |
| | | | | .000 | mm | 147 | 1.25 | 16 | 13 | 4 | 1.30 |
| S520E | S520 | TR | F | .004 | in | 5.78 | 4.93 | 0.63 | 0.50 | 0.17 | 0.05 |
| | | | | .100 | mm | 147 | 125 | 16 | 13 | 4 | 1.30 |
| S521E | S521 | TR | SPRF | .000 | in | 5.78 | 4.93 | 0.63 | 0.50 | 0.17 | 0.05 |
| | | | | .000 | mm | 147 | 1.25 | 16 | 13 | 4 | 1.30 |

Super Diagonal Cutters

| Tool Numbers | | Description | | | | Overall Length | | Jaw Length | Cutter Length | Tip Width | Tip Thick |
|--------------|-------|-------------|------|------|------|----------------|------|------------|---------------|-----------|-----------|
| ergo | short | head | edge | | ergo | short | | | | | |
| S534E | S534 | T HL | F | .004 | in | 5.60 | 4.75 | 0.44 | 0.32 | 0.22 | 0.05 |
| | | | | .100 | mm | 142 | 121 | 11 | 8 | 5 | 1.30 |
| S535E | S535 | T HL | SPRF | .000 | in | 5.60 | 4.75 | 0.44 | 0.32 | 0.22 | 0.05 |
| | | | | .000 | mm | 142 | 121 | 11 | 8 | 5 | 1.30 |
| S610E | S610 | OV | BSF | .007 | in | 6.33 | 5.40 | 0.80 | 0.60 | 0.26 | 0.06 |
| | | | | .180 | mm | 161 | 137 | 20 | 15 | 7 | 1.50 |
| S611E | S611 | 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 |
| S612E | S612 | OV | SPRF | .000 | in | 6.33 | 5.40 | 0.80 | 0.60 | 0.26 | 0.06 |
| | | | | .000 | mm | 161 | 137 | 20 | 15 | 7 | 1.50 |
| S613E | S613 | 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 |
| S614E | S614 | OS | SPRF | .000 | in | 6.33 | 5.40 | 0.80 | 0.60 | 0.26 | 0.06 |
| | | | | .000 | mm | 161 | 137 | 20 | 15 | 7 | 1.50 |
| S615E | S615 | 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 |
| S616E | S616 | T | SPRF | .000 | in | 6.33 | 5.40 | 0.80 | 0.60 | 0.18 | 0.05 |
| | | | | .000 | mm | 161 | 137 | 20 | 15 | 5 | 1.30 |
| S620E | S620 | TR | F | .004 | in | 6.33 | 5.40 | 0.80 | 0.60 | 0.18 | 0.05 |
| | | | | .100 | mm | 161 | 161 | 20 | 15 | 5 | 1.30 |
| S621E | S621 | TR | SPRF | .000 | in | 6.33 | 5.40 | 0.80 | 0.60 | 0.18 | 0.05 |
| | | | | .000 | mm | 161 | 161 | 20 | 15 | 5 | 1.30 |
| S63E | S63 | OS SN | FF | .002 | in | 6.23 | 5.30 | 0.70 | 0.50 | 0.28 | 0.04 |
| | | | | .050 | mm | 158 | 135 | 13 | 8 | 11 | 1 |
| S700E | S700 | OV | BSF | .007 | in | 7.34 | 6.10 | 0.50 | 0.30 | 0.44 | 0.07 |
| | | | | .180 | mm | 186 | 155 | 13 | 8 | 11 | 1.80 |
| S710E | S710 | OV | BSF | .007 | in | 7.74 | 6.50 | 0.90 | 0.70 | 0.33 | 0.07 |
| | | | | .180 | mm | 197 | 165 | 23 | 18 | 8 | 1.80 |



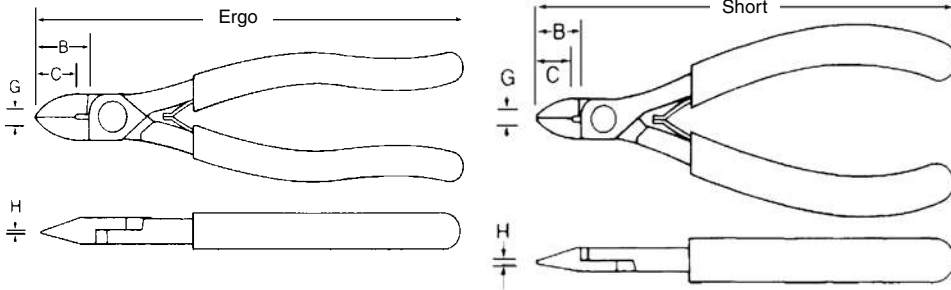
Specifications page 4



Super Diagonal Cutters

Ergonomic Handles

Traditional Handles



"G" measured .125 from tip.

- Ergo** Overall Length
- Short** Overall Length
- B** Jaw Length
- C** Cutter Length
- G** Tip Width
- H** Tip Thickness

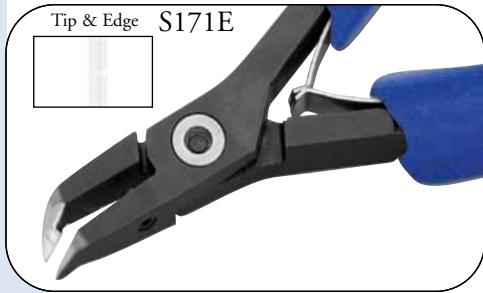


All tools ESD Safe (Static Dissipative)
Protects circuit components. Does not insulate. Do not use on live circuits!



Angle End and Tip Cutters

Reverse Angle, Angle End, and Tip Cutters



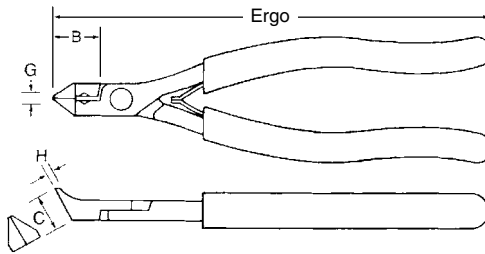
Reverse Angle Cutters

| Tool Numbers | | Description | | | | Overall Length | | Jaw Length | Cutter Length | Tip Width | Tip Thick |
|--------------|-------|-------------|------|---------|------|----------------|------|------------|---------------|-----------|-----------|
| ergo | short | head | edge | | ergo | short | | | | | |
| S170E | S170 | long | SF | .000 in | 5.74 | 4.88 | 0.61 | 0.20 | 0.15 | 0.03 | |
| | | | | .000 mm | 146 | 124 | 15 | 5 | 4 | 0.80 | |
| S171E | S171 | 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 | |

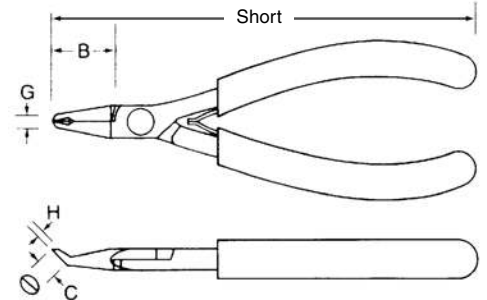
Angle End Cutters

| Tool Numbers | | Description | | | | Overall Length | | Jaw Length | Cutter Length | Tip Width | Tip Thick |
|--------------|-------|-------------|------|---------|------|----------------|------|------------|---------------|-----------|-----------|
| ergo | short | head | edge | | ergo | short | | | | | |
| S215E | S215 | 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 | |
| S218E | S218 | 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 | |
| S223E | S223 | 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 | |
| S224E | S224 | 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 | |
| S225E | S225 | 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 | |
| S482E | S482 | 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 | |
| S483E | S483 | 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 | |
| S485E | S485 | 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 | |
| S491E | S491 | 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 | |
| S492E | S492 | 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 | |

Ergonomic Handles



Traditional Handles



"G" measured .125 back from tip on 60° angle cutter.

"G" measured at widest point on 45° angle cutter.

- Ergo** Overall Length
- Short** Overall Length
- B** Jaw Length
- C** Cutter Length
- G** Tip Width
- H** Tip Thickness

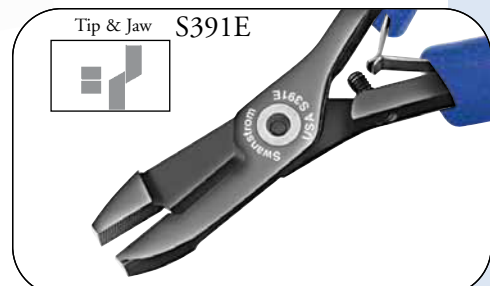
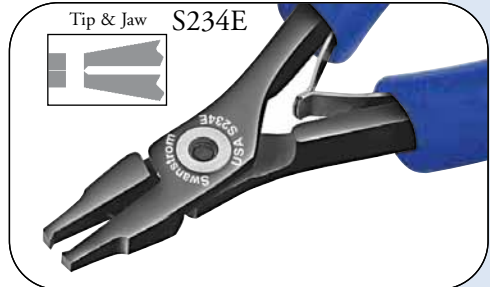
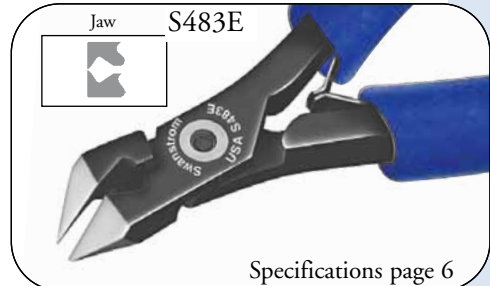
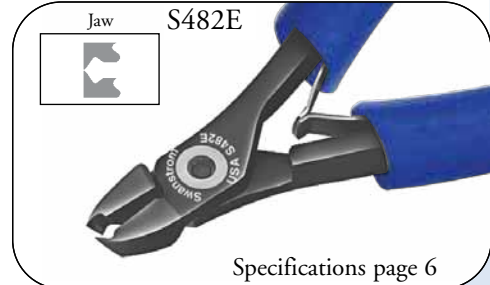
Transverse End and Long Nose Tip Cutters

Transverse End Cutters

| Tool Numbers | | Description | | | | Overall | | Jaw Length | | Cutter Length | Tip Length | Tip Width | Thick |
|--------------|-------|-------------|------|--|------|---------|------|------------|------|---------------|------------|-----------|-------|
| ergo | short | head | edge | | in | mm | ergo | short | | | | | |
| S233E | S233 | LN | SF | | .000 | | 5.88 | 5.03 | 0.75 | 0.10 | 0.20 | 0.10 | |
| | | | | | .000 | mm | 149 | 128 | 19 | 2.5 | 5 | 2.50 | |
| S234E | S234 | SN | F | | .004 | | 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 | | Jaw Length | | Cutter Length | Tip Length | Tip Width | Thick |
|--------------|-------|-------------|------|--|------|---------|------|------------|------|---------------|------------|-----------|-------|
| ergo | short | head | edge | | in | mm | ergo | short | | | | | |
| S212E | S212 | FN RE | SF | | .000 | | 5.99 | 5.14 | 0.86 | 0.17 | 0.15 | 0.10 | |
| | | | | | .000 | mm | 152 | 131 | 22 | 4 | 4 | 0.25 | |
| S213E | S213 | RE | SF | | .000 | | 5.99 | 5.14 | 0.86 | 0.17 | 0.17 | 0.1 | |
| | | | | | .000 | mm | 152 | 131 | 22 | 4 | 4 | 2.40 | |
| S219E | S219 | UF RE | SF | | .000 | | 5.99 | 5.14 | 0.86 | 0.17 | 0.13 | 0.08 | |
| | | | | | .000 | mm | 152 | 131 | 22 | 4 | 3 | 2 | |
| - | S291 | LN SER A | | | | | | | | | | | |
| | | | | | | in | - | 5.28 | 1.00 | 0.25 | 0.08 | 0.06 | |
| | | | | | | mm | - | 134 | 25 | 6 | 2 | 1.50 | |
| S350E | S350 | SM | S | | | | 6.86 | 6.01 | 1.70 | 0.50 | 0.08 | 0.06 | |
| | | | | | | mm | 174 | 153 | 43 | 13 | 2 | 1.50 | |
| S351E | S351 | SER | S | | | | 6.86 | 6.01 | 1.70 | 0.50 | 0.08 | 0.06 | |
| | | | | | | mm | 174 | 153 | 43 | 13 | 2 | 1.50 | |
| S391E | - | SER | S | | | | 6.16 | - | 1 | 0.50 | 0.23 | 0.23 | |
| | | | | | | mm | 156 | - | 25 | 13 | 6 | 6 | |



S219E



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



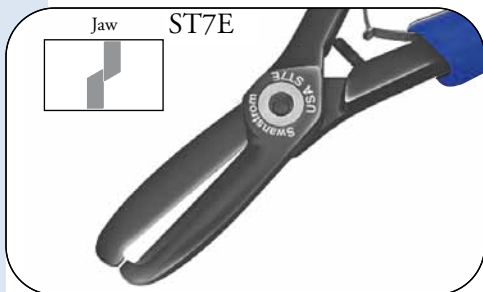
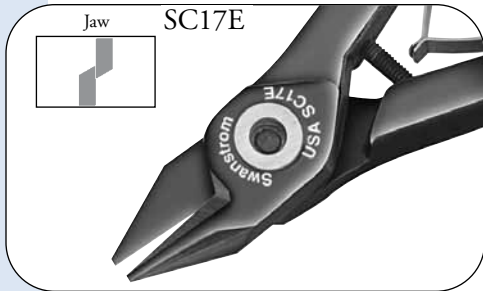
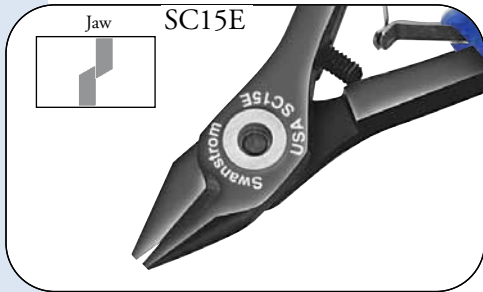
Shear Cutters and Strippers

Shear Cutters

| Tool Numbers | Description Overall | | | Jaw Length ergo | Cutter Length | Tip Length | Tip Width | Thick |
|--------------|---------------------|------|----------|-----------------|---------------|------------|--------------|--------------|
| | head | edge | | | | | | |
| SC5E | OvSC | S | in mm | 6.41 163 | 1.25 32 | 1.25 32 | 0.35 9 | 0.05 1.30 |
| SC7E | OvSC | S | in mm | 8.29 211 | 1.45 37 | 1.45 37 | 0.35 9 | 0.10 2.50 |
| SC15E | T SC | S | in mm | 5.66 144 | 0.50 13 | 0.50 13 | 0.06 1.4 | 0.05 1.30 |
| SC17E | T SC | S | in mm | 7.50 190 | 0.70 18 | 0.70 18 | 0.08 1.90 | 0.07 1.80 |
| ST5E | R ST | S | in mm | 6.66 169 | 1.50 38 | 1.25 32 | 0.33 8 | 0.20 5 |
| ST7E | R ST | S | in mm | 8.47 215 | 1.63 41 | 1.50 38 | 0.35 9 | 0.22 6 |

Strippers

| Tool Numbers | Description Overall | | | Jaw Length ergo | Cutter Length | Tip Length | Tip Width | Thick |
|--------------|---------------------|------|----------|-----------------|---------------|------------|-----------|--------------|
| | head | edge | | | | | | |
| SV5E | T V | S | in mm | 5.79 147 | 0.63 16 | 0.50 13 | 0.32 8 | 0.22 6 |
| SV5E-SP | T V BP | S | in mm | 5.79 147 | 0.63 16 | 0.50 13 | 0.32 8 | 0.22 6 |
| SV7E | Ov | S | in mm | 8.29 211 | 1.45 37 | 1.45 37 | 0.35 9 | 0.10 2.50 |

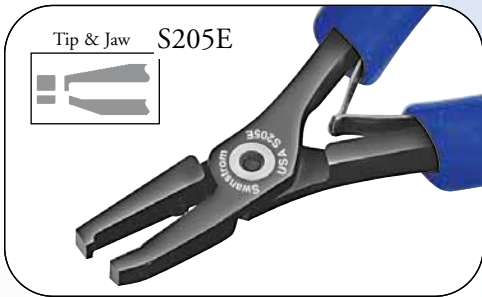
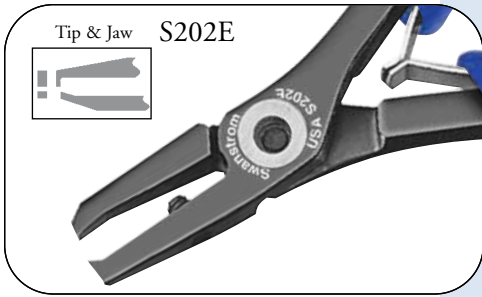
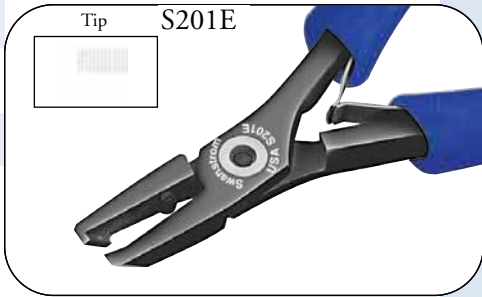
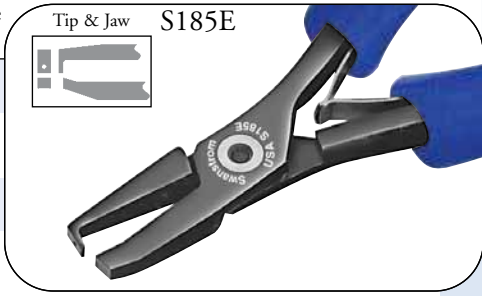


All tools ESD Safe (Static Dissipative)
Protects circuit components. Does not
insulate. Do not use on live circuits!

Stand-Off Cutters

Stand-Off Cutters

| Tool Numbers | | Description | | | Overall Length | | Jaw Length | Cutter Length | Tip Width | Tip Thick | Stand-Off Distance |
|--------------|-------|-------------------------|------|------|----------------|------|------------|---------------|-----------|-----------|--------------------|
| ergo | short | head | edge | ergo | short | | | | | | |
| S185E | - | LSH | S | in | 5.93 | - | 0.78 | 0.13 | 0.32 | 0.03 | 0.03 |
| | | (lead stabilizing hole) | | | | mm | 151 | - | 20 | 3 | 8 3 |
| S201E | S201 | 45° | S | in | 5.83 | 4.98 | 0.70 | 0.18 | 0.25 | 0.18 | 0.04 |
| | | | | | mm | 146 | 126 | 18 | 5 | 6 | 5 |
| S202E | S202 | 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 |
| S203E | S203 | 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 |
| S205E | S205 | LN | S | in | 5.92 | 5.07 | 0.79 | 0.18 | 0.235 | 0.18 | 0.04 |
| | | | | | mm | 150 | 129 | 20 | 5 | 6 | 4.60 |
| S205EB | S205B | BC | S | in | 5.92 | 5.10 | 0.79 | 0.18 | 0.235 | 0.18 | 0.04 |
| | | | | | mm | 150 | 129 | 20 | 5 | 6 | 4.60 |
| S605E | S605 | 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 |



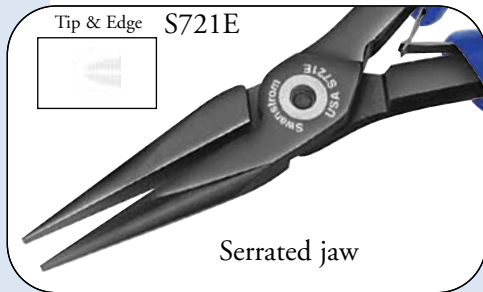
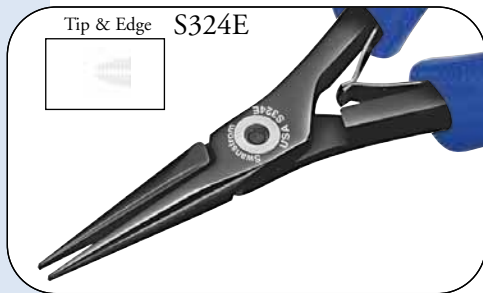
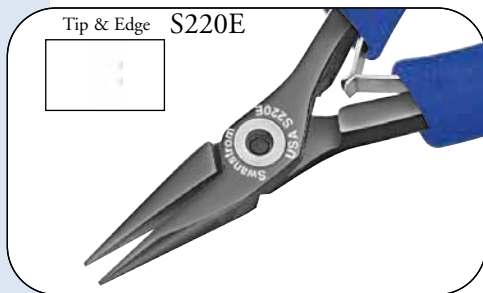
S605E

Stand-Off Cutters



Snipe (short) and Long Nose Pliers

Snipe (short) and Long Nose Pliers

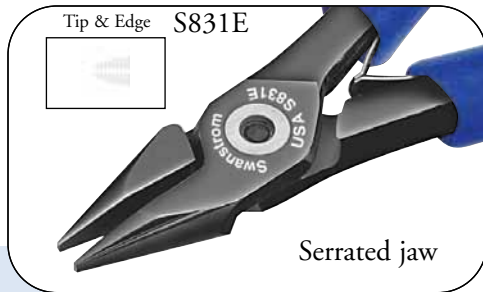


Snipe Nose Pliers

| Tool Numbers | | Tool Description | | | Overall Length | | Jaw Length | Tip Width | Tip Thick |
|--------------|-------|------------------|-----|----|----------------|-------|------------|-----------|-----------|
| ergo | short | head | jaw | | ergo | short | | | |
| S108E | S108 | MI | SM | in | 6.00 | 4.61 | 0.88 | 0.05 | 0.03 |
| | | | | mm | 152 | 117 | 22 | 1.10 | 0.80 |
| S109E | S109 | MI | SER | in | 6.00 | 4.61 | 0.88 | 0.05 | 0.03 |
| | | | | mm | 152 | 117 | 22 | 1.10 | 0.80 |
| S206E | S206 | MI | SM | in | 5.58 | 4.73 | 0.45 | 0.05 | 0.03 |
| | | | | mm | 142 | 120 | 11 | 1.10 | 0.80 |
| S208E | S208 | SU | SM | in | 5.93 | 5.08 | 0.80 | 0.05 | 0.03 |
| | | | | mm | 151 | 129 | 20 | 1.10 | 0.80 |
| S209E | S209 | SU | SER | in | 5.93 | 5.08 | 0.80 | 0.05 | 0.03 |
| | | | | mm | 151 | 129 | 20 | 1.10 | 0.80 |
| S210E | S210 | SNP | SM | in | 5.93 | 5.08 | 0.80 | 0.06 | 0.03 |
| | | | | mm | 151 | 129 | 20 | 1.50 | 0.80 |
| S211E | S211 | SNP | SER | in | 5.93 | 5.08 | 0.80 | 0.06 | 0.03 |
| | | | | mm | 151 | 129 | 20 | 1.50 | 0.80 |
| S242E | S242 | C | SM | in | 6.03 | 5.18 | 0.90 | 0.07 | 0.04 |
| | | | | mm | 153 | 132 | 23 | 1.80 | 1 |
| S243E | S243 | C | SER | in | 6.03 | 5.18 | 0.90 | 0.07 | 0.04 |
| | | | | mm | 153 | 132 | 23 | 1.80 | 1 |

Long Nose Pliers

| Tool Numbers | | Description | | | Overall Length | | Jaw Length | Tip Width | Tip Thick |
|-------------------|-------|-------------|-----|----|----------------|-------|------------|-----------|-----------|
| ergo | short | head | jaw | | ergo | short | | | |
| S220E | S220 | LN | SM | in | 6.13 | 5.28 | 1.00 | 0.06 | 0.03 |
| | | | | mm | 156 | 134 | 25 | 1.50 | 0.80 |
| S221E | S221 | LN | SER | in | 6.13 | 5.28 | 1.00 | 0.06 | 0.03 |
| | | | | mm | 156 | 134 | 25 | 1.50 | 0.80 |
| SS221E | - | LN | SCR | in | 6.13 | - | 1.00 | 0.06 | 0.03 |
| (stainless steel) | | | | mm | 156 | - | 25 | 1.50 | 0.80 |
| S320E | S320 | LN | SM | in | 6.86 | 6.01 | 1.70 | 0.06 | 0.03 |
| | | | | mm | 174 | 153 | 43 | 1.50 | 0.80 |
| S321E | S321 | LN | SER | in | 6.86 | 6.01 | 1.70 | 0.06 | 0.03 |
| | | | | mm | 174 | 153 | 43 | 1.50 | 0.80 |
| S323E | - | LN | SER | in | 6.86 | - | 1.70 | 0.06 | 0.06 |
| | | | | mm | 174 | - | 43 | 1.60 | 1.60 |
| S324E | S324 | SL | SM | in | 6.21 | 5.36 | 1.08 | 0.06 | 0.06 |
| | | | | mm | 158 | 136 | 27 | 1.50 | 1.50 |
| S325E | S325 | SL | SER | in | 6.21 | 5.36 | 1.08 | 0.06 | 0.06 |
| | | | | mm | 158 | 136 | 27 | 1.50 | 1.50 |
| S328E | S328 | EL | SM | in | 6.94 | 6.09 | 1.78 | 0.08 | 0.08 |
| | | | | mm | 176 | 155 | 45 | 2 | 2 |
| S329E | S329 | EL | SER | in | 6.94 | 6.09 | 1.78 | 0.08 | 0.08 |
| | | | | mm | 176 | 155 | 45 | 2 | 2 |
| S630E | S630 | LN | SM | in | 7.53 | 6.55 | 1.85 | 0.08 | 0.06 |
| | | | | mm | 191 | 166 | 47 | 2 | 1.50 |
| S631E | S631 | LN | SER | in | 7.53 | 6.55 | 1.85 | 0.08 | 0.06 |
| | | | | mm | 191 | 166 | 47 | 2 | 1.50 |
| S721E | - | LN | SER | in | 8.94 | - | 2.13 | 0.13 | 0.13 |
| | | | | mm | 227 | - | 54 | 3 | 3 |
| S831E | - | LN | SER | in | 7.94 | - | 1.10 | 0.09 | 0.09 |
| | | | | mm | 202 | - | 28 | 2.40 | 2.40 |



Flat, Needle, and Curve Nose Pliers

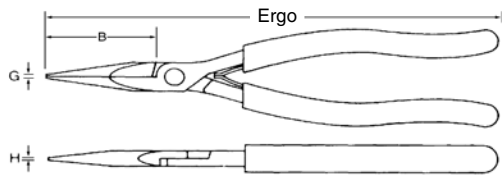
Flat Nose Pliers

| Tool Numbers | | Tool Description | | | Overall Length | | Jaw Length | Tip Width | Tip Thick |
|---------------|-------|------------------|-----|----|----------------|-------|------------|-----------|-----------|
| ergo | short | head | jaw | | ergo | short | | | |
| S200E | S200 | FLN | SM | in | 6.13 | 5.28 | 1.00 | 0.05 | 0.12 |
| | | | | mm | 156 | 134 | 25 | 1.30 | 3 |
| S300E | S300 | FLN | SM | in | 6.86 | 6.01 | 1.70 | 0.05 | 0.12 |
| | | | | mm | 174 | 153 | 43 | 1.30 | 3 |
| S380EPR- | | FLN | SM | in | 7.64 | - | 1.00 | 0.05 | 0.12 |
| (pistol grip) | | | | mm | 194 | - | - | 25 | 1.30 |
| S800E | - | FLN | SER | in | 8.21 | - | 1.25 | 0.14 | 0.40 |
| | | | | mm | 209 | - | 32 | 3.50 | 10 |

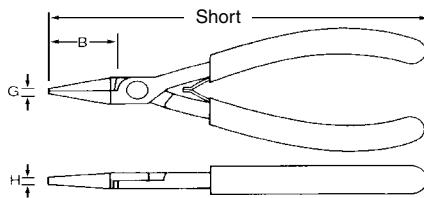
Needle Nose Pliers

| Tool Numbers | | Tool Description | | | Overall Length | | Jaw Length | Tip Width | Tip Thick |
|--------------|-------|------------------|-----|----|----------------|-------|------------|-----------|-----------|
| ergo | short | head | jaw | | ergo | short | | | |
| S230E | S230 | NN | SM | in | 6.13 | 5.28 | 1.00 | 0.06 | 0.03 |
| | | | | mm | 156 | 134 | 25 | 1.50 | 0.80 |
| S231E | S231 | NN | SER | in | 6.13 | 5.28 | 1.00 | 0.06 | 0.03 |
| | | | | mm | 156 | 134 | 25 | 1.50 | 0.80 |
| S240E | S240 | C | SM | in | 5.93 | 5.08 | 0.80 | 0.06 | 0.03 |
| | | | | mm | 151 | 129 | 20 | 1.5 | 0.80 |
| S330E | S330 | NN | SM | in | 6.86 | 6.01 | 1.70 | 0.06 | 0.03 |
| | | | | mm | 174 | 153 | 43 | 1.50 | 0.80 |
| S331E | S331 | NN | SER | in | 6.86 | 6.01 | 1.70 | 0.06 | 0.03 |
| | | | | mm | 174 | 153 | 43 | 1.50 | 0.80 |
| S331E-1 | - | NN | SER | in | 6.86 | - | 1.70 | 0.09 | 0.06 |
| | | | | mm | 174 | - | 43 | 2.30 | 1.50 |
| S330AE | S330A | EL | SM | in | 7.35 | 6.50 | 2.19 | 0.06 | 0.06 |
| | | | | mm | 187 | 165 | 56 | 1.60 | 1.60 |
| S340E | S340 | C | SM | in | 6.56 | 5.71 | 1.40 | 0.06 | 0.03 |
| | | | | mm | 167 | 145 | 36 | 1.50 | 0.80 |
| S340AE | - | 90° EL | SM | in | 6.21 | - | 1.05 | 0.06 | 0.06 |
| | | C | | mm | 158 | - | 27 | 1.60 | 1.60 |
| S341E | S341 | C | SER | in | 6.21 | 5.71 | 1.40 | 0.06 | 0.03 |
| | | | | mm | 158 | 145 | 36 | 1.50 | 0.80 |
| S660E | S660 | NN | SM | in | 7.53 | 6.45 | 1.85 | 0.08 | 0.80 |
| | | | | mm | 191 | 164 | 47 | 2 | 1.50 |
| S661E | S661 | NN | SER | in | 7.53 | 6.45 | 1.85 | 0.08 | 0.06 |
| | | | | mm | 191 | 164 | 47 | 2 | 1.50 |

Ergonomic Handles



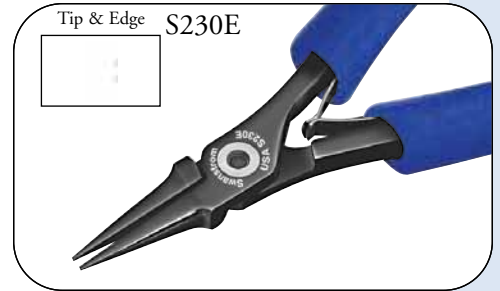
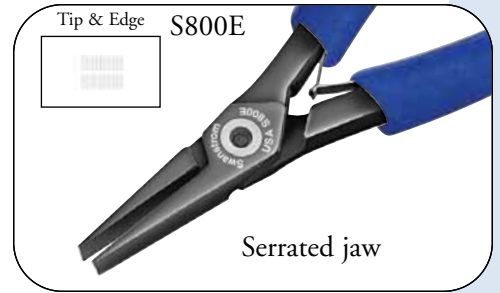
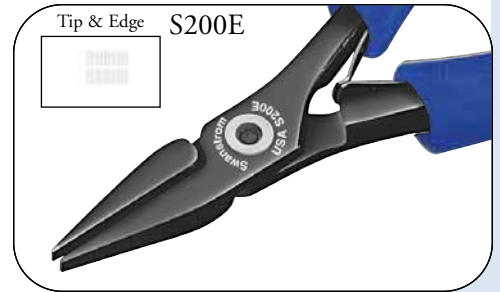
Traditional Handles



Ergo Overall Length
Short Overall Length
B Jaw Length
G Tip Width
H Tip Thickness



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

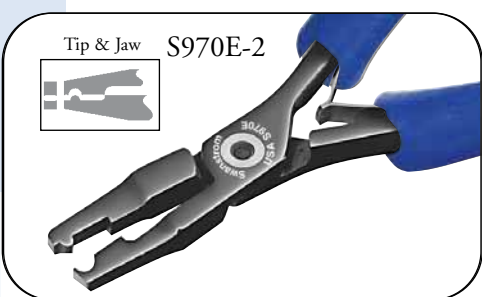
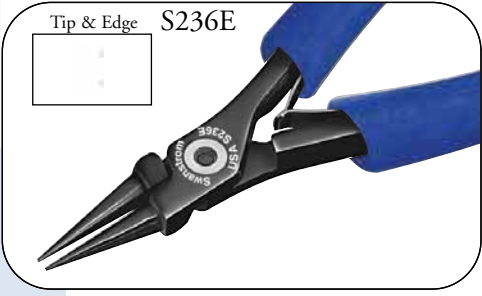


Flat, Needle, and Curve Nose Pliers



Round Nose, Straightening, and Forming Pliers

Round Nose, Straightening, and Forming Pliers

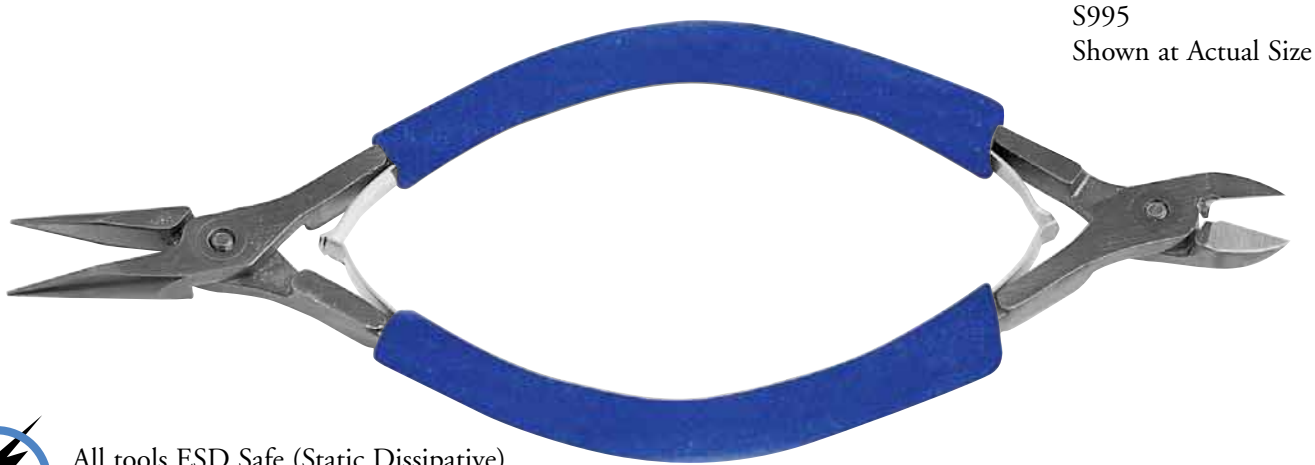


| Round Nose Pliers | | Description | | Overall Length | | Jaw Length | Tip Width | Tip Thick | |
|-------------------|------|-------------|-----|----------------|-------|------------|-----------|-----------|------|
| Tool Numbers | | head | jaw | ergo | short | | | | |
| S236E | S236 | RN | SM | in | 6.13 | 5.28 | 1.00 | 0.06 | 0.03 |
| | | | | mm | 156 | 134 | 25 | 1.50 | 0.80 |
| S238E | S238 | RN | SM | in | 5.60 | 4.75 | 0.63 | 0.06 | 0.03 |
| | | | | mm | 142 | - | 16 | 1.50 | 0.80 |

| Straightening Pliers | | Description | | Overall Length | | Jaw Length | Tip Width | Tip Thick | |
|----------------------|---|-------------|-----|----------------|-------|------------|-----------|-----------|------|
| Tool Numbers | | head | jaw | ergo | short | | | | |
| S808E | - | - | SM | in | 6.06 | - | 0.90 | 0.06 | 0.75 |
| | | | | mm | 154 | - | 23 | 1.50 | 19 |

| Forming Pliers | | Description | | Overall Length | | Jaw Length | Tip Width | Tip Thick | |
|----------------|------|-------------|-----|----------------|-------|------------|-----------|-----------|------|
| Tool Numbers | | head | jaw | ergo | short | | | | |
| S195E | - | LN | - | in | 6.26 | - | 1.00 | 0.09 | 0.03 |
| | | | | mm | 159 | - | 25 | 2.30 | 0.80 |
| S970E-2 | - | STR | S | in | 6.25 | - | 1.09 | 0.27 | 0.13 |
| | | | | mm | 159 | - | 27 | 6.90 | 3.30 |
| S980E | S980 | CV/CXSM | | in | 5.88 | 5.03 | 1.00 | 0.11 | 0.14 |
| | | | | mm | 149 | 128 | 25 | 2.80 | 3.60 |
| S986E | - | F/R | SM | in | 6.13 | - | 1.00 | 0.11 | 0.14 |
| | | | | mm | 156 | - | 25 | 2.80 | 3.60 |
| S990E | S990 | STR | - | in | 6.19 | 5.34 | 1.03 | 0.17 | 0.13 |
| | | | | mm | 157 | 136 | 26 | 4.30 | 3.30 |
| S991E | - | D STR | - | in | 6.39 | - | 1.23 | 0.75 | 0.38 |
| | | | | mm | 162 | - | 31 | 19 | 9.50 |

| Double Ended Pliers | | Description | | Overall Length | | Jaw Length | | Tip Width | | Tip Thick | |
|---------------------|-----------------------|-------------|-------|----------------|-------|------------|------|-----------|------|-----------|--|
| Tool Numbers | | | | | | | | | | | |
| S995 | DE | in | 7.50 | 0.53 | 0.88 | 0.23 | 0.45 | 0.03 | 0.03 | | |
| | Cutter/Plier | mm | 191 | 13 | 22 | 6 | 1.10 | 0.80 | 0.80 | | |
| S996 | Round | Flat | Round | Flat | Round | Flat | | | | | |
| | DE | in | 7.75 | 0.75 | 0.80 | 0.06 | 0.05 | 0.03 | 0.11 | | |
| | Round Nose /Flat Nose | mm | 197 | 19 | 20 | 1.50 | 1.30 | 0.80 | 2.80 | | |



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