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Aven Tronex Series High Precision Pliers and Cutters

made in the USA

Cutting Edge Technology provides you with superior levels of cutting performance, quality, value and comfort.

- Highest quality American made 1% carbon alloy steel is used for exceptional hardness and toughness. Tools are engineered for precision cutting yet long lasting ruggedness. These tools have the heft and feel that of a luxury car.
- Special Handles both standard and long are ergonomically designed to fit most hands with no points of pressure. They are enhanced by soft cushion grips for maximum comfort to reduce cutting fatigue dramatically.
- Exceptional Cutting Edges. They are made with by using a proprietary dual sharpening process and then raised to optimum hardness and toughness through a induction heating and tempering process. The result: Sharp, hard and tough cutting edges outcut and outlast all others.
- **Superior Joint System:** Two halves of the tool are joined by a fine thread interlocking screw and nut which mount on precision machined bearing rings. This ensures a tight, perfect alignment with smooth consistent cutting.

- Cutters are available in Semi-Flush, Flush and Razor Flush cutting edges.
- Attractive satin coating protects against corrosion and reduces glare.
- Stainless steel double leaf springs
- ESD Safe cushion grips for exceptional comfort
- Available in Standard and Ergonomic handle lengths. Length of tool with standard handle: 115mm (4-1/2") and with ergonomic handle: 140mm (5-1/2")
- 100% Quality assurance:- Each cutter is checked individually at the factory and are warranted for be free of defects in materials and workmanship for the life of the tool



for perfect factory setting



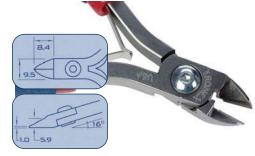
Ergonomic Handle



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Tronex Series - High Precision Cutters

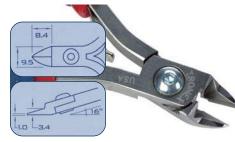
Tronex Oval Head Cutter



Strong versatile and long lasting, this popular shape can be used for many applications. Designed to be durable through hundreds of thousands of cuts.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|------------------|--------------|-------------------|
| 5111 | 7111 | Semi-Flush | .20 to 1.20mm |
| 5112 | 7112 | Flush | .15 to 1.50mm |
| 5113 | 7113 | Razor Flush™ | .10 to 1.00mm |

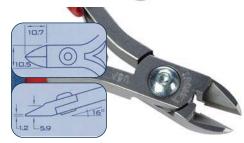
Tronex Oval Head Cutter with Relief



Same features as the oval head cutter but the relief provides extra accessibility.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|-------------------------|--------------|-------------------|
| 5121 | 7121 | Semi-Flush | .20 to 1.20mm |
| 5122 | 7122 | Flush | .15 to 1.10mm |
| 5123 | 7123 | Razor Flush™ | .10 to 0.90mm |

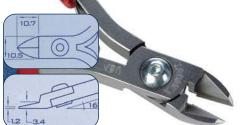
Tronex Large Oval Head Cutter



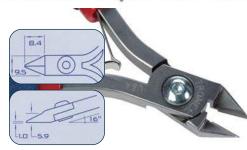
Popular for wire and cable, extra rugged, 25% larger head than standard oval cutters.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|------------------|--------------|-------------------|
| 5511 | 7511 | Semi-Flush | .20 to 1.50mm |
| 5512 | 7512 | Flush | .15 to 1.50mm |
| 5513 | 7513 | Razor Flush™ | .10 to 1.20mm |

Tronex Large Oval Head Cutter with Relief



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Same features as the large oval head cutter but the relief provides extra accessibility.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|------------------|--------------|-------------------|
| 5521 | 7521 | Semi-Flush | .20 to 1.40mm |
| 5522 | 7522 | Flush | .15 to 1.40mm |
| 5523 | 7523 | Razor Flush™ | .10 to 1.20mm |

Tronex Tapered Head Cutter

A more compact design pointed head for increased operator access, yet covers a wide cutting range and long tool life.

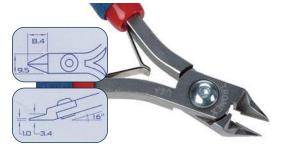
| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|------------------|--------------|-------------------|
| 5211 | 7211 | Semi-Flush | .20 to 1.10mm |
| 5212 | 7212 | Flush | .15 to 1.10mm |
| 5213 | 7213 | Razor Flush™ | .10 to 1.00mm |

*Diameter of Soft Copper wire

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Tronex Tapered Head Cutter with Relief



Same features as the tapered head cutter but with a lower profile for better access and extra visibility.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|-------------------------|--------------|-------------------|
| 5221 | 7221 | Semi-Flush | .20 to 1.10mm |
| 5222 | 7222 | Flush | .15 to 1.00mm |
| 5223 | 7223 | Razor Flush™ | .10 to 0.90mm |

Tronex Miniature Oval Head Cutter





| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|------------------|--------------|-------------------|
| 5311 | 7311 | Semi-Flush | .20 to 1.10mm |
| 5312 | 7312 | Flush | .10 to 1.00mm |
| 5313 | 7313 | Razor Flush™ | .10 to 0.80mm |

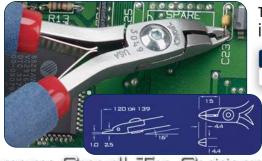
Tronex Minature Tapered Head Cutter



Miniature Taper Relief cutters are used only for exceptionally fine cutting work. Usually access to the cutting area is difficult, requiring the very low profile of this cutter with full relief.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity* |
|-----------------|------------------|--------------|-------------------|
| 5421 | 7421 | Semi-Flush | .20 to 1.10mm |
| 5422 | 7422 | Flush | .10 to 1.00mm |
| 5423 | 7423 | Razor Flush™ | .10 to 0.80mm |

Tronex Tip Cutter High Relief



Tronex Small Tip Cutter



Tip cutter with a deep relief for an exceptionally low profile. Short sturdy jaw. Razor Flush[™] cutting Edges.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity |
|-----------------|------------------|--------------|-------------------------|
| 5049 | 7049 | Razor Flush™ | .10 to 0.65mm |

Most popular tip cutter. Jaw is twice as long as standard cutters. Jaw is slim with a low relieved profile. Razor Flush[™] cutting edges.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity |
|-----------------|------------------|--------------|------------------|
| 5070 | 7070 | Razor Flush™ | .10 to 0.65mm |

Fronex Series - High Precision Cutters

Tronex Subminiature Tip Cutter



SMT Cutter. Extraordinarily small. Fine cutting edges and fine tip. Often used under a microscope. Removes individual leads from fine pitch components. Razor Flush[™] Cutting Edges.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity |
|-----------------|------------------|--------------|-------------------------|
| 5071 | 7071 | Razor Flush™ | .05 to 0.40mm |

Tronex Angulated Miniature 50° Cutter



An SMT cutter with a very small cutting head. Used for exceptionally fine cutting. Relieved for maximum accessibility. Flush cutting edges.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity |
|-----------------|------------------|--------------|-------------------------|
| 5075 | 7075 | Flush | .10 to 0.65mm |

Small 50° Cutter Tronex Angulated



Most popular angulated cutter. Small cutting head with relief for excellent visibility. Durability combined with fine cutting. Flush cutting edges.

| 5082 7082 Eluch 10 to 0.65m | rd Handle Ergonomic H | landle Cutting Edg | e Cutting Capacity |
|-----------------------------|-----------------------|--------------------|--------------------|
| | 5082 7082 | Flush | .10 to 0.65mm |

arge 50° Cutter XenonT Anciulatiac



Largest cutting head. Robust. Excellent in cutting several leads in a single cut. Relieved for enhanced visibility. Razor Flush™ cutting edges.

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity |
|-----------------|------------------|--------------|-------------------------|
| 5072 | 7072 | Razor Flush™ | .10 to 0.65mm |

Tronax Haavy Juty Cutter



This cutter, forged of carbon steel, has strength in the head and joint areas needed to cut heavier gauge wire or cable. Cushion grips provide operator comfort. A jaw restraining device is attached to insure spring retention. Overall length 6" (152mm). Length of cutting blade 3/4" (19mm)

| Standard Handle | Ergonomic Handle | Cutting Edge | Cutting Capacity |
|-----------------|------------------|--------------|-------------------------|
| - | 7812 | Flush | .10 to 1.60mm |

*Diameter of Soft Copper wire

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Tronex Series - High Precision Pliers

Tronex Chain Nose Pliers: Standard and Short Jaw



Features very fine tips, "eased" edges of the inner jaw to reduce the risk of damage to the workpiece during forming, and a long jaw for extended gripping power. Available with smooth or serrated jaws. Standard & Short Chain nose pliers have tips dimension of 1.2mm W x 1.4mm H (.050" x .060").

| Standard Handle | Ergonomic Handle | Jaw Type | Jaw Length |
|-----------------|------------------|-------------------|--------------|
| 511 | 711 | Standard Smooth | 33mm (1.30") |
| 512 | 712 | Standard Serrated | 33mm (1.30") |
| 513 | 713 | Short Smooth | 19mm (0.75″) |

Tronex Needle Nose Pliers



These pliers have exceptionally fine tips. The outer surface of the jaw is rounded to the shape of smooth half cones. This design increases tool access and allows forming of round loops. All edges of the inner jaws are eased. Tip dimensions: 1.0mm W x 1.2mm H. (.040" x .050").

| Standard Handle | Ergonomic Handle | Jaw Type | Jaw Length |
|-----------------|------------------|----------|----------------|
| 521 | 721 | Smooth | 31.7mm (1.25") |

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Precision Tools

Fronex Round Nose Pliers: Standard and Short Jaw

Available in long and short jaws. The long jaws makes it possible to form a wide range of loop diameters. The short jaw adds more stiffness and strength to allow forming of heavier gauge wire with added control. Long jaw pliers have a tip diameter of 0.7mm(.030") and the short jaw pliers have a tip diameter of 0.9mm (.035").

| Standard Handle | Ergonomic Handle | Jaw Type | Jaw Length |
|-----------------|------------------|----------|----------------|
| 531 | 731 | Smooth | 31.7mm (1.25") |
| 532 | 732 | Smooth | 18.1mm (.715″) |

Tronex Flat Nose Pliers: Standard and Wide Tips



These flat nose pliers have a long jaw and very thin tips. The tip gripping area has a smooth finish. All inner edges are "eased" to reduce risk of workpiece damage. Standard flat nose pliers have tips that are 3.5mm (.140") wide and the Wide Tip Flat Nose Pliers have tips that are 6.3mm (.250") wide.

| Standard Handle | Ergonomic Handle | Jaw Type | Jaw Length |
|-----------------|------------------|-----------------|----------------|
| 541 | 741 | Standard Smooth | 31.7mm (1.25") |
| 542 | 742 | Wide Smooth | 31.7mm (1.25") |