

4 9000 Series Micro-Shear® Flush Cutters SERIES

The ultimate shear cutter

Our 9000 Series is the culmination of 20 years of continuous development of the Micro-Shear® cutter. These are the only shears made anywhere in the world rated for cutting everything from soft material less than one mil. up to 12 AWG copper wire.

9000 Series Micro-Shear® flush cutters begin with a unique, state of the art blanking process from a tough alloyed steel. Their size and shape reflect the latest advances in enhanced ergonomics. The heat treating process is exclusive to the 9000 Series. Cutting edges are an ultra durable 56-58 RC. The result is a shear unlike any other in design, capacity and durability. Static dissipative grips are optionally available.

The Long Handled (LH) variation of the 9000 Series is designed for applications where workplace ergonomics call for an extra long handled tool. They provide added leverage for reduced cutting effort. Longer handles also create an extended contact area with the hand for a more secure grip and more repositioning possibilities. This decreases pressure within the hand at any given point reducing fatigue associated with repetitive motion.

The 9000 Series is the ultimate shear cutter, available only from XURON, the company that invented the Micro-Shear® flush cutter.

9100LH Oval Head Micro-Shear® Flush Cutter

Our 9100 with extra long handles. Same tough alloyed steel, heat treating, grinding and ergonomic shape combined with added handle length and extra long Xuro-Rubber™ grips. Reduces pressure on operator's hand at any given point; offers more repositioning possibilities. Flush cuts soft wire up to 12 AWG (2.0 mm).

9100F Micro-Shear® Flush Cutter

Our 9100 with a factory installed lead retainer. Ultra low profile design provides excellent access while special no-slip mounting ensures accurate positioning on the shear. Helps prevent flying leads and component shorting from stray leads

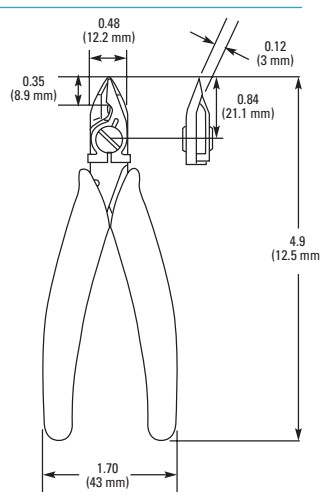
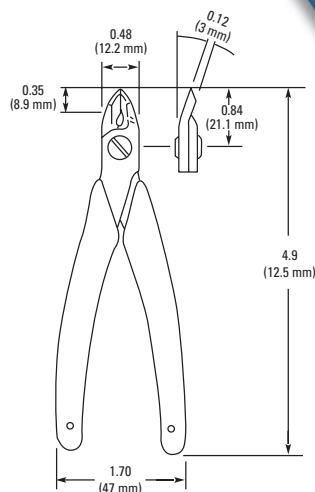
9200 Tapered Head Micro-Shear® Flush Cutter

Tapered head version of the 9100. The same tough alloyed steel, heat treating and ultra-precise CNC grinding with a tapered head for improved access in high density areas and added precision. Tapered head design allows positioning, even on fine pitch leads. Precision-ground Micro-Shear® cutting edges guarantee a clean cut. Flush cuts soft wire up to 14 AWG (1.6mm).

9100 Oval Head Micro-Shear® Cutter

The most durable Micro-Shear® flush cutter we've ever made. Tough alloyed steel, state of the art heat treating and ultra-precise CNC grinding combine to create the ultimate shear cutter.

The advanced ergonomic design, coupled with our exclusive Xuro-Rubber™ grips, *Light Touch™* return spring and glare-eliminating black finish ensure operator comfort, even in high volume and large capacity applications. Flush cuts soft wire up to 12 AWG (2.0 mm).



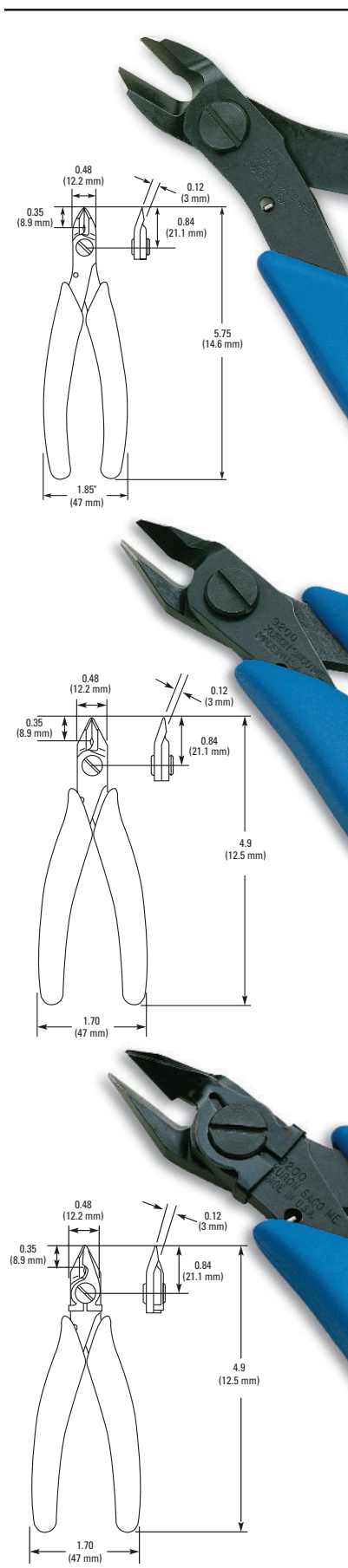
9200F Micro-Shear® Flush Cutter

Our 9200 with a factory installed lead retainer. Ultra-low profile design provides excellent access while special no-slip mounting ensures accurate positioning on the shear. Helps prevent flying leads and component shorting from stray leads.

FEATURING QUALITY & PRECISION

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9000 Series Micro-Shear® Flush Cutters 5

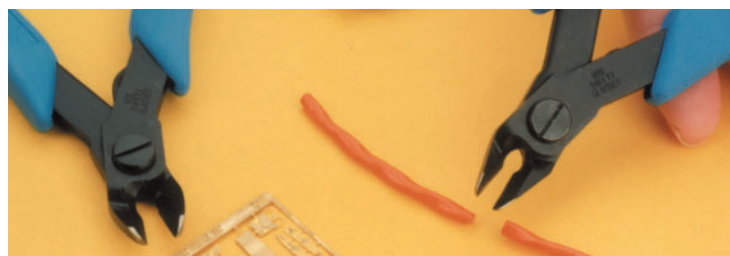
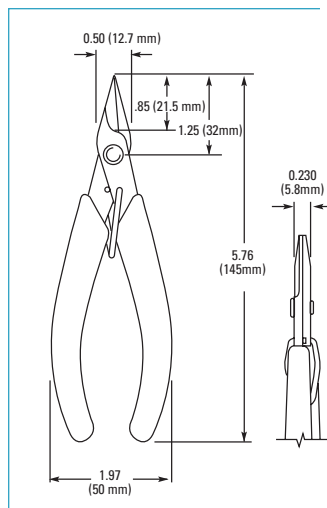


9180 Kevlar® Fiber Shear

Designed and manufactured specifically for cutting the Kevlar® fiber strength component of fiber optic cables. Uniquely designed serrated edge prevents the fibers from sliding out the front of the shear while cutting. Cutting edges are heat treated to a hard 58-60 RC. A superior tool offering both precision cutting and exceptional tool life. Cushioned Xuro-Rubber™ grips and return spring provide both comfort and convenience.

9180NS (non-serrated) Shear

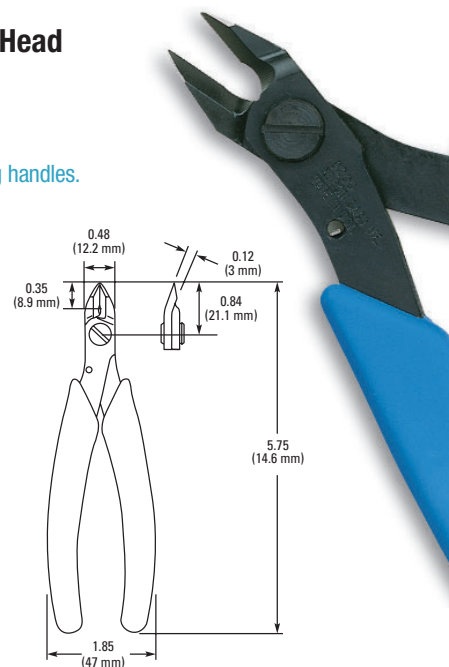
The same as our standard model 9180 but without the serrated edge. Designed for cutting applications where serrations are not necessary or not desired. Appropriate for cutting soft sheet metals up to 0.031" (0.8mm).



9200LH Tapered Head Micro-Shear® Flush Cutter

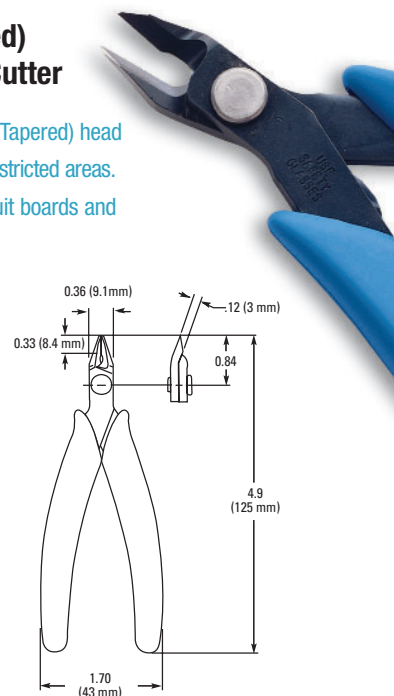
Our 9200 with extra long handles.

Same tough alloyed steel, heat treating, grinding and ergonomic shape combined with added handle length and extra long Xuro-Rubber™ grips. Reduces pressure on operator's hand at any given point. Offers more repositioning possibilities. Flush cuts soft wire up to 14 AWG (1.6 mm).



9250ET (Extra Tapered) Micro Shear® Flush Cutter

Features a subminiature (Extra Tapered) head size for access into extremely restricted areas. Ideal for ultra high density circuit boards and SMT. Design offers strength with the superior durability of all 9000 Series shears. Ergonomically shaped, cushioned Xuro-Rubber™ grips and our Light Touch™ return spring for operator comfort. Glare eliminating black finish helps reduce eye strain and enhances contrast for more precise positioning. Cuts from less than one mil up to 18 AWG (1.02 mm).



LX&MAXI-SHEAR SERIES

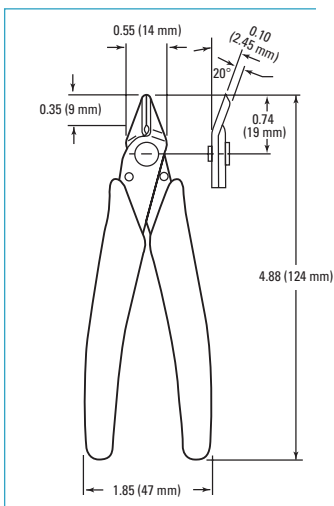
6 LX&Maxi-Shear Series Micro-Shear® Flush Cutters

Upgraded for the 21st century, the LX Series Micro-Shear® Flush Cutters are stronger and more durable with improved cutting capacity. These mid-range flush cutters feature precision-ground, ultra-sharp cutting edges on a tool designed for maximum strength and durability. State of the art heat treating to a Rockwell 55-57C ensures a rugged, precise, and extremely durable flush cutter capable of cutting soft leads up to 16 AWG (1.29 mm). Features also include ergonomic design, non-slip Xuro-Rubber™ grips, a glare resistant bright finish and our patented, lifetime warranted, *Light Touch*™ return spring.

LX Series shears are optionally available with static control (AS) grips

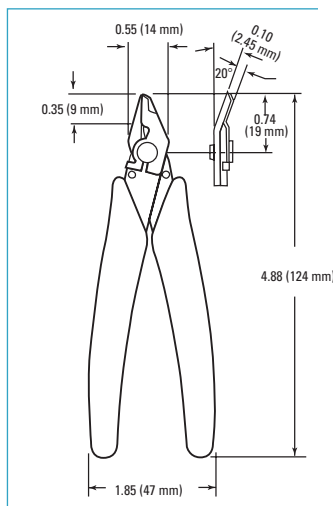
LX Micro-Shear® Flush Cutter

Our patented Micro-Shear® cutting action combined with precision ground cutting edges, extra tough .100" thick high carbon steel blades, and an ultra slim profile for access in high density areas. Sized for smaller hands and maximum maneuverability. Flush cuts soft wire up to 16 AWG (1.29 mm).



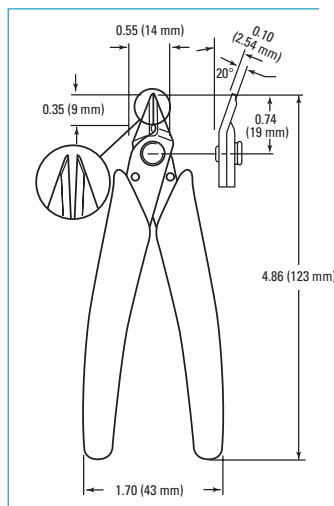
LX-F Micro-Shear® Flush Cutter

Our LX with a factory installed lead retainer. Design provides a low profile and non-slip mounting on the shear. Helps prevent flying leads and component shorting from stray leads.



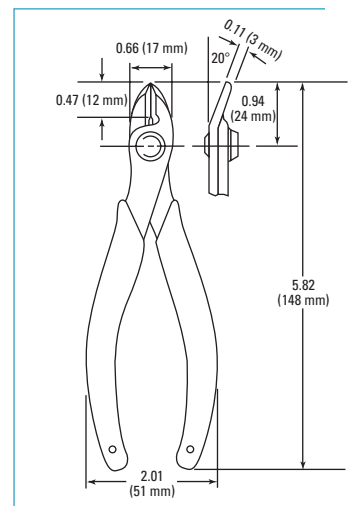
LX-T Micro-Shear® Flush Cutter

A special, extra tapered cutter head with an ultra-slim tip profile combined with the same Micro-Shear® cutting action, precision grinding, and tough high carbon steel blades of the standard LX. Ultra-sharp, precision tip for access in highly restricted areas. Flush cuts soft wire up to 20 AWG (0.8 mm).



2175 Maxi-Shear™ Flush Cutter

An extremely durable and versatile wire cutter featuring our patented Micro-Shear® cutting action. Tough enough for harnesses and cables with the precision to cut material less than 1 mil. thick or work in high density areas. Ergonomically shaped, non-slip Xuro-Rubber™ grips and a glare eliminating black finish ensure operator comfort. Non-protruding, lifetime warranted flat spring provides excellent "feel" without excessive spring tension. Flush cuts soft wire up to 12 AWG (2.05 mm).



FEATURING QUALITY & PRECISION

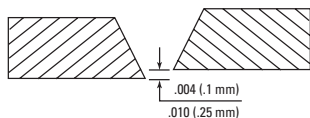
LX&MAXI-SHEAR SERIES

LX&Maxi-Shear Series Micro-Shear® Flush Cutters 7

The 2175 Maxi-Shear™ Series flush cutters are manufactured from the highest grade, 0.125" high carbon steel. They feature our lifetime warranted, *Light Touch*™ return spring and ergonomically-shaped, non-slip Xuro-Rubber™ grips. Most important, all 2175 Maxi-Shear™ flush cutters utilize our patented Micro-Shear® cutting action. This means less cutting effort, less fatigue, and fewer fatigue-related injuries and complaints. Maxi-Shears™ are optionally available with static control (AS) grips.

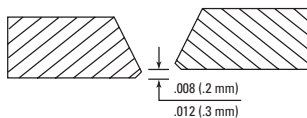
2175A Maxi-Shear™ Flush Cutter

Ultra flush cutting version of our 2175 for fine work and very soft materials. Very lightly bevelled cutting edges allow for minimal blade by-pass (see diagram) ensuring the finest flush cut possible. Glare eliminating black finish and ergonomically-shaped Xuro-Rubber™ grips. Cuts soft wire up to 14 AWG (1.6 mm).



2175B Maxi-Shear™ Flush Cutter

Semi-flush cutting version of our 2175. A more pronounced bevel on the cutting edges (see diagram) allows for heavier cutting or extended wear where flush or ultra flush cuts are not required. Non-slip, ergonomically shaped Xuro-Rubber™ grips and a glare eliminating black finish for operator comfort. Semi-flush cuts on soft wire up to 12 AWG (2.05 mm).



2193 Music Wire Shear

Large, full by-pass shear designed specifically for cutting music wire and other types of hardened wire. Shearing cut combined with high mechanical advantage make cutting iron, hardened and tempered steel wire up to 12 AWG (2.05mm) seem effortless. Cushioned Xuro-Rubber™ grips and our *Light Touch*™ return spring for operator comfort. Cuts music wire up to 0.040" diameter.

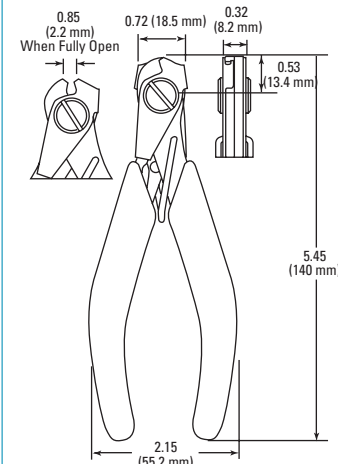
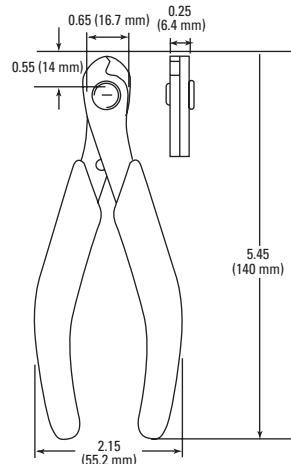
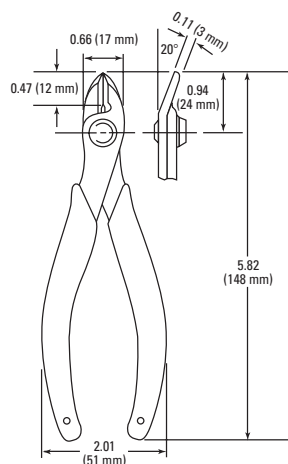
2193F Music Wire Shear

Our 2193 with self-adjusting clamping fixtures which hold the material being cut perpendicular to the cutter jaws. Greatly simplifies cutting process while adding significantly to both the precision of the cut and cutting capacity. Gives square ended cuts on both the cut and off-cut sides. Cuts music wire up to 0.060".



2175F Maxi-Shear™ Flush Cutter

Our 2175 with a factory-installed lead retainer. Clip is permanently installed for non-slip positioning. Low profile design for good sight lines and accessibility. Helps prevent flying leads and component shorting from stray leads.



For a selection of companion pliers turn to Pliers section beginning on page 13

SHORT CUT™

8 Short Cut™ Series Micro-Shear® Flush Cutters

SERIES

Short-Cut™ Series shears feature an ergonomically-enhanced size and shape. Hand grip dimensions are optimized to the size and shape of the human hand. Their unique shape and Xuro-Rubber™ grips provide a secure “fit” in the operator's hand resulting in more precise control.

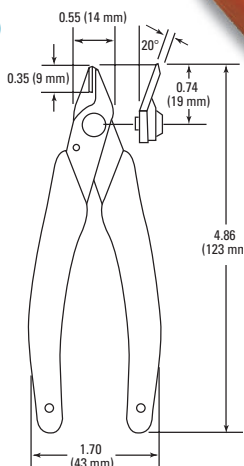
Short-Cut™ Series shears feature a glare eliminating black finish for operator comfort and enhanced contrast between the component lead and tool and our patented, lifetime warranted, *Light Touch™* return spring.

Static dissipative grips are optionally available.

410 Micro-Shear® Flush Cutter

The premium grade version of our world famous 170-II Micro-Shear® Flush Cutter.

Its size and shape are optimized for work in high density areas. The patented Micro-Shear® blade by-pass reduces both cutting effort and mechanical shock (impact) transmitted to the component. High carbon steel blades are precision ground to ultra sharp cutting edges. Its unique, state of the art heat-treating process yields a Rockwell hardness of 55-57C. The result is a tough, precise, durable flush cutter capable of reliably and economically cutting soft wire up to 18AWG (1.02mm).



410T Micro-Shear® Flush Cutter

Our 410 shear with ultra sharp precision tips and an extra thin tip profile. Provides the ultimate in maneuverability and operator control; allows work in areas other tools cannot even enter. Ideal for SMD or high density areas. Due to the low mass of the cutter head, care should be exercised to avoid overstressing the tips. Maximum cutting capacity is 22 AWG (0.64mm) soft wire.

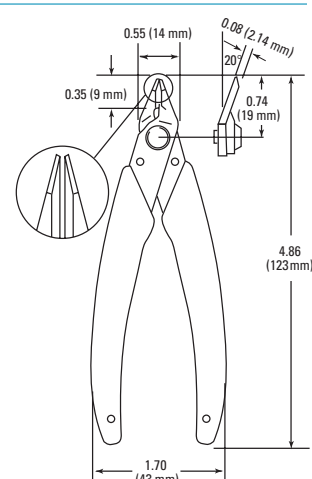
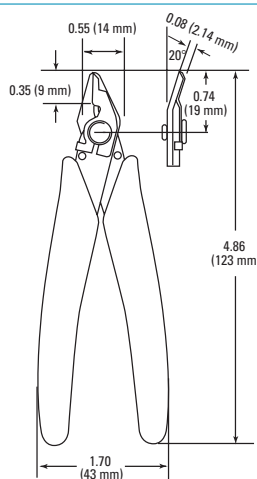
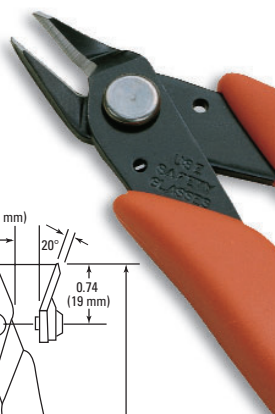
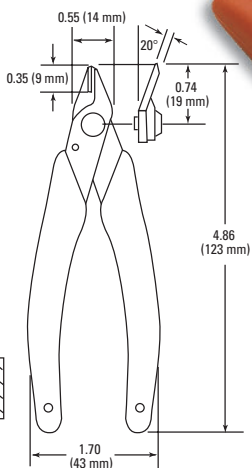
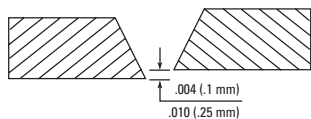
410F Micro-Shear® Flush Cutters

Our 410 with a factory-installed lead retainer. Design provides a low profile and non-slip mounting on the shear. Helps prevent flying leads and component shorting from stray leads. Cuts soft wire up to 18 AWG (1.02mm).



410A Micro-Shear® Flush Cutter

Ultra flush cutting version of our 410, for fine work. Very lightly bevelled cutting edges allow for minimal blade by-pass (see diagram) ensuring the finest flush cut possible while still retaining the Micro-Shear® blade by-pass type of cut. Glare eliminating black finish and ergonomically shaped, non-slip Xuro-Rubber™ grips for operator comfort. Cuts soft wire up to 20 AWG (0.8 mm)



FEATURING QUALITY & PRECISION

SHORTCUT™

Short Cut™ Series Micro-Shear® Flush Cutters 9

SERIES



420T Angled Micro-Shear® Flush Cutter

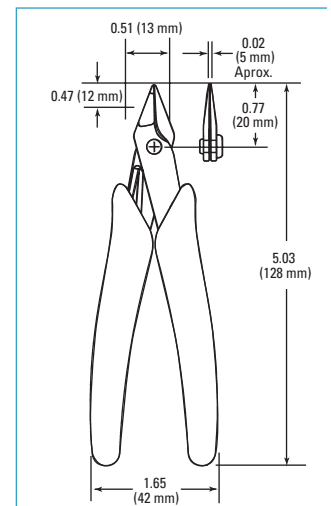
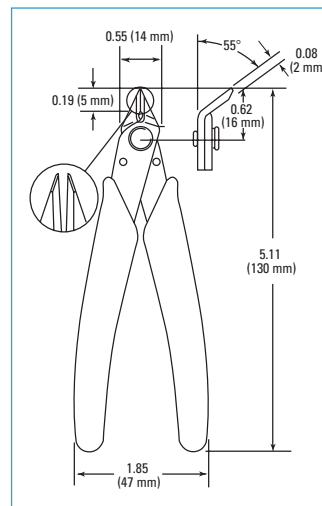
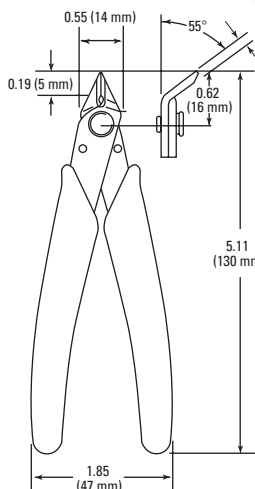
Our 420 shear with ultra sharp precision tips and an extra thin tip profile. Provides the ultimate in maneuverability and operator control; allows work in areas other tools cannot even enter. Ideal for SMD or high density areas. Due to the low mass of the cutter head, care should be exercised to avoid overstressing the tips. Maximum cutting capacity is 22 AWG (0.64 mm) soft wire.

440 Mini-Shear

An ultra precise scissor, cuts fine or delicate items with a clean, square edge. Cushion grip, Xuro-Rubber™ handles and our *Light Touch™* return spring replace conventional finger loops for increased comfort and precision. This innovative design is especially advantageous for users with arthritic hands. Rated for cutting soft metals up to 0.005".

420 Angled Micro-Shear® Flush Cutter

Allows easier cutting in difficult areas. Angled head provides excellent sight lines when used in either the vertical or horizontal position. Slim profile for accessibility. Glare eliminating black finish, non-slip Xuro-Rubber™ grips and light weight for operator comfort. Flush cuts soft wire up to 20 AWG (0.8 mm).



10 170-II Series Micro-Shear® Flush Cutters SERIES

170-II Micro-Shear® Flush Cutter

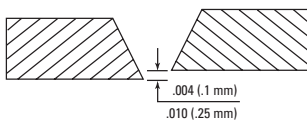
Our world famous, patented original Micro-Shear® flush cutter sets the standard imitators can't meet. We invented it. We perfected it. We were awarded the patent (U.S. Pat. 3774301).

Shear cutting greatly reduces cutting effort while providing the shear cut desirable in electronics assembly work. Less cutting effort means fewer fatigue related injuries and complaints.

The ergonomically shaped, non-slip Xuro-Rubber™ grips, glare eliminating black finish and light weight ensure operator comfort. Ultra slim profile increases access in high density areas. Flush cuts soft wire up to 18 AWG (1.0 mm).

170-IIA Full Flush Cutting Micro-Shear® Flush Cutter

The 170-IIA is an ultra flush cutting version of our 170-II, for fine work. Very lightly bevelled cutting edges allow for minimal blade by-pass (see diagram) ensuring the finest flush cut possible while still retaining the Micro-Shear® blade by-pass type of cut. Glare eliminating black finish and ergonomically shaped, non-slip Xuro-Rubber™ grips ensure operator comfort. Cuts soft wire up to 20 AWG (0.8mm). The 170-IIA is a good choice for plastics de-gating.



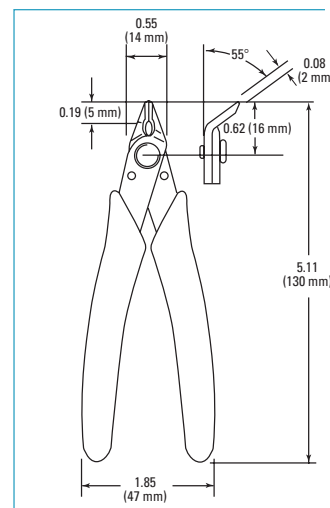
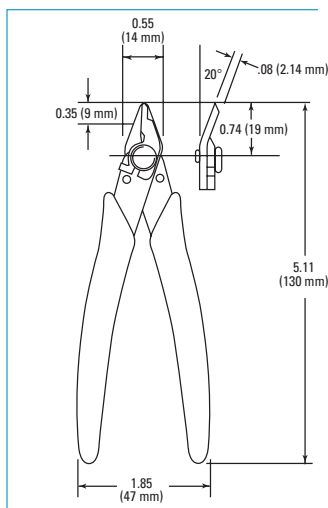
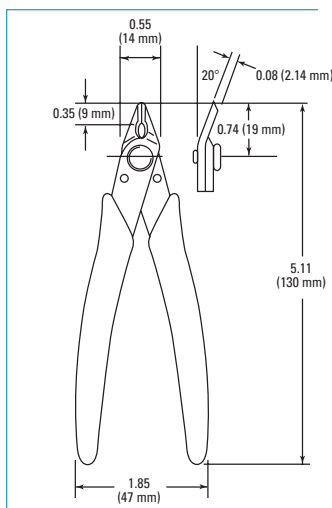
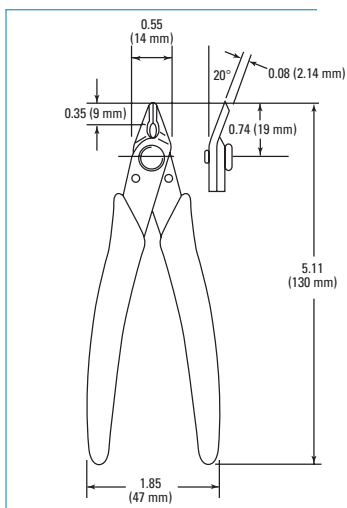
170-II Series shears offer numerous ergonomic enhancements in an “economically priced” tool. Their effort-reducing Micro-Shear® cutting action requires only about half the effort to cut a wire as that required by conventional compression-type cutters. The 170-II Series feature advanced ergonomic shape, Xuro-Rubber™ grips, a glare eliminating black finish, light weight and our patented, lifetime warranted, *Light Touch™*

170-IIF Micro-Shear® Flush Cutter

The 170-IIF features a low profile, non-slip, factory-installed lead retainer to help prevent flying leads and component shorting from stray leads.

280-II Angled Micro-Shear® Flush Cutter

The 280-II allows easier cutting in difficult areas. A 55° angled head provides excellent sight lines when used in either the vertical or horizontal position. A slim profile increases accessibility to hard to reach surfaces. Light weight, glare eliminating black finish, non-slip Xuro-Rubber™ grips ensure operator comfort. Flush cuts soft wire up to 20 AWG (0.8 mm).



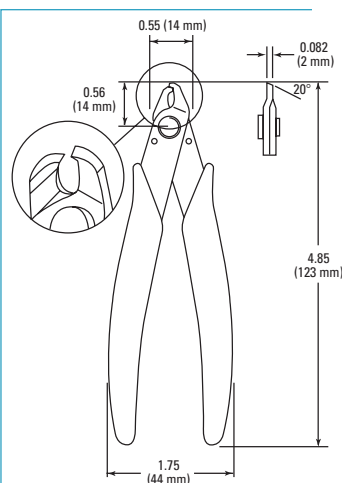
FEATURING QUALITY & PRECISION

return spring.

Manufactured from a tough alloyed steel, their Rockwell hardness is a durable 54-56C. They are optionally available with static control (AS) grips.

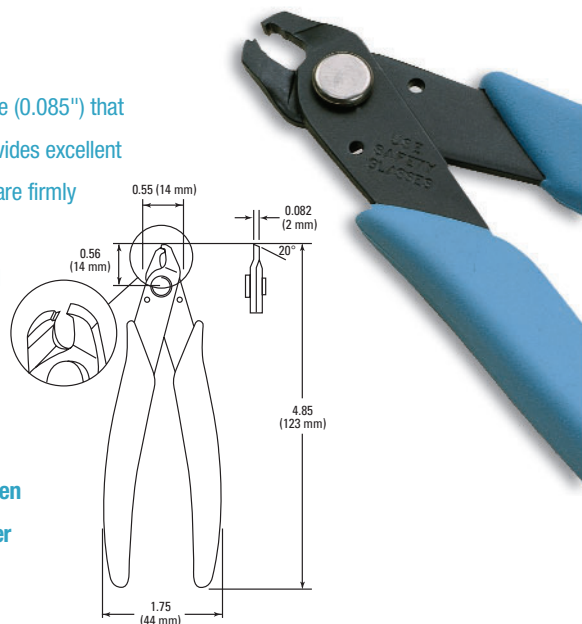
635 Shear Rise Cutter

The 635 Shear Rise Cutter combines a full flush, shear cut and a 0.035" stand off in one cut. It's ideal for manufacturers who need both a stand off and a full flush cut. Glare eliminating black finish, ultra light weight and ergonomically-shaped, non-slip Xuro-Rubber™ grips ensure operator comfort. High carbon steel guarantees durability. Full flush cuts on soft wire up to 20 AWG (0.8 mm).



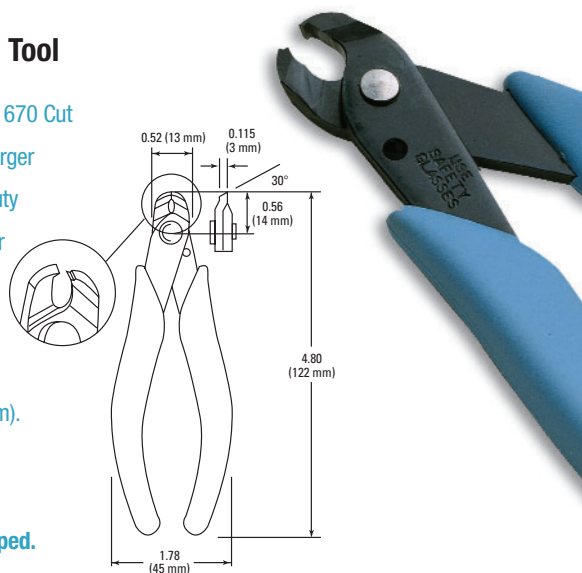
670 Cut and Crimp Tool

The 670 Cut and Crimp Tool features a slim profile (0.085") that allows accessibility in high density areas and provides excellent sight lines for precise positioning. Swaged leads are firmly attached to p.c.b., while freshly exposed lead material enhances solderability. High carbon steel guarantees durability. Ultra light weight, glare eliminating black finish and ergonomically shaped, non-slip Xuro-Rubber® grips ensure operator comfort. Cuts and crimps soft wire up to 20 AWG (0.8 mm). **Best results are achieved when the diameter of the hole on the p.c.b is not larger than 2.5 times the diameter of the wire being cut/crimped.**



670HD Heavy Duty Cut and Crimp Tool

The 670HD offers the same great features as our 670 Cut and Crimp tool in a heavy-duty configuration. A larger head (0.115") simplifies positioning and heavy-duty construction provides extended tool life and larger wire capacity. Light weight, glare-eliminating black finish and ergonomically-shaped, non-slip Xuro-Rubber™ grips ensure operator comfort. Cuts and crimps soft wire up to 16 AWG (1.27 mm). **Best results are achieved when the diameter of the hole on the p.c.b is not larger than 2.5 times the diameter of the wire being cut/crimped.**



8500 BioShear® Flush Cutter

Bio-Shear® flush cutters incorporate the popular curved grip design with all the ergonomic features of our standard 170-II. Grip design keeps the knuckles of the operator's hand in a straighter line and prevents the hand from completely closing, reducing the amount of effort expended while delaying fatigue. Heat treated to 54-56RC for lasting durability. Please designate either 8500L(left) or 8500R(right).

