

XURON
CORP.



precisiontools

DESIGNED FOR CUTTING EXCELLENCE

hand tool ergonomics Q&A.

Q. What are ergonomic hand tools?

A. All hand tools, by definition, are ergonomic, otherwise you wouldn't be able to do any work with them. What's really important are the ergonomic enhancements that have been (or can be) made to your tools. Let's examine several different aspects:

1. Force — The amount of force required to use a tool includes the force necessary to overcome resistance in joints and any return spring(s) in addition to the force actually required to cut, grasp or bend. XURON manufactures only Micro-Shear® wire cutters. Their patented shearing cut requires about half the force required by a conventional compression-style cutter to cut wire. High precision screw and post joints on the 9000 Series reduce internal friction and our return springs provide lively action with low operating pressure.

2. Comfort — A number of factors determine if a hand tool is comfortable: the shape of the grip and its size, the amount of contact surface with the hand and the contour of the contact surface, the resiliency of the grip material, and the overall weight of the tool; all influence whether the tool will be comfortable in your hand. The comfort of the tool should be apparent the moment it's picked up. Comfort should also be assessed after extended use.

Micro-Shear® Flush Cutter grips feature broad, flat contact surfaces molded from Xuro-Rubber™. The grips on the 9000LH tools traverse the width of the hand, helping to eliminate pressure points while reducing pressure at any given point. Grip spread in the closed position is under 2", a comfortable dimension for most hand sizes. Weight is very low, ranging from 1.9 oz. for a 170-II to 2.7 oz. for a 9000LH Series shear.

3. Visual — Reflective surfaces cause glare, which promotes eye strain and fatigue. Positioning, especially in dense areas or under adverse lighting conditions, is troublesome and fatiguing if there is poor contrast between the tool and the workpiece.

XURON tools feature a non-glare bright finish or a



glare-eliminating black finish, giving you the option of selecting the appropriate finish for the work.

4. Auditory — High sound levels in the workplace are another important fatigue factor. XURON 590 Micro-Pneumatics™ help reduce workplace noise levels with their quiet operation (<60 DbA).

Q. Will hand tools with ergonomic enhancements eliminate cumulative trauma disorders (CTD), such as carpal tunnel syndrome?

A. No. No hand tool, regardless of ergonomic enhancement is capable of being a "magic bullet" and eliminating possible cumulative trauma disorders. The enemy is still the repetitive nature of the work and fatigue. With ergonomically-enhanced hand tools fatigue is postponed and trauma is reduced. The goal is to postpone fatigue to the point where a rest period occurs before the tool user fatigues.

For the estimated 20% of the population that is predisposed to CTD, no hand-operated tool is going to eliminate the problem. Assessing the work and the people doing the work is essential in choosing appropriate tools. Some form of automation, such as a pneumatic tool, is indicated in high volume, repetitive motion work situations.

WIRE STRIPPERS PLIERS AND FORMING TOOLS

Wire Strippers, Pliers and Forming Tools



Wire Strippers, Pliers and Forming Tools

XURON's new wire strippers are designed for simplicity, functionality and durability. Each model features a unique thumb-adjustable cam that can be set without the need for additional tools. For added versatility, a built-in full by-pass shear cutter is designed into each tool.

XURON Tweezer Nose™ and Xuro-Grip™ pliers deliver high precision at reasonable cost. Primary design criteria are precision, ergonomics and durability.

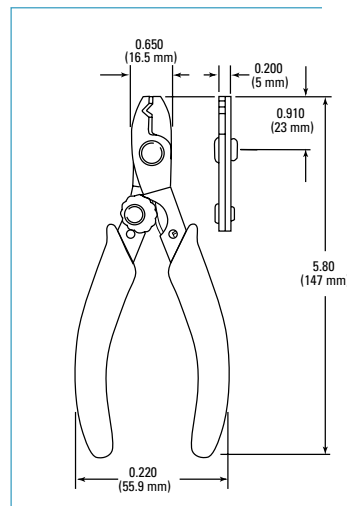
XURON wire strippers, pliers and forming tools feature advanced ergonomic designs, Xuro-Rubber™ cushion grips, light weight, a glare-eliminating black finish and our *Light Touch™* return spring. All are optionally available with static control (AS) grips.



new

501 Wire Stripper/Cutter

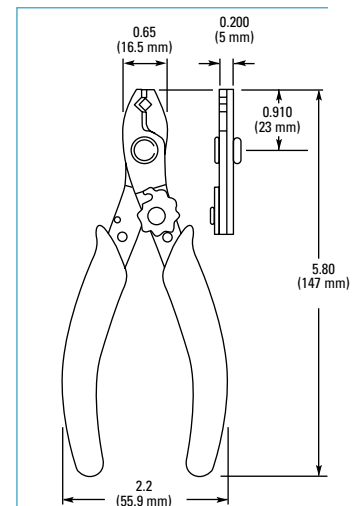
A simple, yet highly effective wire stripper. Manufactured from .100" thick high carbon steel, the 501 is designed to cut and strip all wire sizes from 10-26 AWG (2.59-0.405mm). Thumb adjustable cam is quickly and easily set to the desired size, requiring no additional tools and no need to know the exact diameter of the wire. Can be used for both solid and stranded wire. Light weight, Xuro-Rubber™ grips and *Light Touch™* return spring combine for operator comfort and ease of use.



new

505/505ST Wire Stripper/Cutter

Similar in design to the model 501, but with the added benefit of having wire gauge markings on the cam and a handy closure "hook" that keeps the tool in a closed position when not in use. **Model 505 is designed for solid wire from 12-26 AWG (2.05mm-.405), model 505ST for stranded wire.** Both models feature Xuron's *Light Touch™* return spring and cushioned, non-slip Xuro-Rubber™ grips.



TOOL KITS



Xuron offers two custom tool kits featuring Micro-Shear® brand Flush Cutters, Pliers and Scissors as a convenient and cost effective option for field service and wire harness applications. Tools come packed in a durable, protective tri-fold canvas pouch that easily fits into a larger tool case or jacket pocket.



TK-2100 Field Service Tool Kit

Features three precision tools capable of handling a variety of field service applications. The tri-fold pouch includes a 410T Micro-Shear® Flush Cutter with a refined tip for access into restricted areas; FSS-6 Stainless Steel Scissor for cutting jacketing, cables, pins and dowels; and the 450 Tweezer Nose™ pliers for tightening pins, forming connectors or holding wires. The pouch holds each tool in individual pockets for their protection. Two smaller pockets are available for rulers, scribes or scalers.



TK-2300 Wire Harness Tool Kit

A tool kit designed specifically for wire harness and wire processing applications, it includes a Model 501 Wire Stripper with thumb adjustable cam; a heavy duty 2175 Maxi-Shear™ Flush Cutter and 440 Mini-Shear for cutting or slitting the jacketing on cables. The pouch holds each tool in individual pockets for their protection. Two smaller pockets are available for rulers, scribes or scalers.

