

Introduction – Pliers

Klein Quality

All Klein pliers are made of the finest U.S. steel alloy. They are forged, precision machined, hardened, and carefully tempered for maximum strength. Klein pliers provide exceptional performance and durability.

All pliers mating surfaces and dimensions are precision machined for faultless performance. Pliers halves are precision machined and hot riveted for uniformly smooth opening and closing action. Cutting knives are manufactured for long-lasting edges and perfect alignment.

The cutting knives on all Klein pliers are designed to meet according to the way each is used. Side-cutting and long-nose

pliers with side cutters have knives that meet at the hinge first and then meet at least one-half of the knife length. Diagonal-cutting pliers meet at the tip first and then meet at least one-half of the knife length.

These precise knife-closing designs increase knife life and facilitate resharpening.

Klein pliers are individually adjusted to meet performance standards far exceeding application requirements – ensuring that nothing less than outstanding quality ever carries the Klein name.

Using Pliers

A professional knows all the rules about using pliers, but a review of the following points may help you recall any you may have forgotten.

1. **Never use pliers to do another tool's job.** Pliers should not be used as a hammer or pry tool or a wrench. Using pliers instead of the proper tools risks damaging the work, damaging yourself, and losing time.
2. **Never push pliers beyond their capacity.** Bending stiff wire with light pliers or the tip of needle-nose pliers can spring them or break them. Use a stronger, blunt nose pliers. When you need greater leverage, use pliers with greater leverage. Don't extend the length of the pliers handles. Bolts should be cut with a bolt cutter, and large cable with a cable cutter.
3. **Never expose pliers to excessive heat.** Direct flame on metal can ruin the tool. Cutting pliers are especially vulnerable to high, direct heat.
4. **Never cut hardened wire with ordinary pliers.** Pliers should not be used for cutting hardened wire unless they are specifically recommended for this use.
5. **Never rock pliers from side to side when cutting wire... and never bend the wire back and forth against the cutting**

knives. Either practice can dull or nick the cutting edges. Cut wire at a right angle only. If it won't cut readily, the knives may need sharpening. Or you may need pliers with greater leverage.

6. **Never cut any wire or metal unless your eyes are protected.** Goggles or other protective devices are an absolute must. Don't take shortcuts. Operate safely...the professional way.
7. **Never cut any wire or metal unless your fellow workers' eyes are also protected.** The wire that doesn't get you may get someone else. Think about the "other guy" as well as yourself.
8. **Never depend on plastic-dipped handles to insulate you from electricity.** Plastic-dipped handles are intended for comfort and a firmer grip only. They are not intended for protection against electric shock. Never use any pliers or cutting tools on live electrical circuits. Only use insulated tools that are marked with the official international 1000-volt rating symbol if there is any chance that the tool will make contact with an energized source.
9. **Always wear approved eye protection such as protective goggles or a face mask.**

Pliers Catalog Number Prefixes/Suffixes

"D" (Prefix) – Indicates the pliers have plastic-dipped handles. Plastic-dipped handles are for comfort, NOT for protection against electrical shock.

"HD" (Prefix) – Indicates the pliers have heavy-duty plastic-dipped handles. Heavy-duty plastic-dipped handles provide an extra level of user comfort and are NOT for protection against electrical shock.

"J" (Prefix) – Indicates the pliers have Journeyman™ handles. State-of-the-art dual material molding that allows for a softer, more comfortable grip on the outer surface and a harder, more durable grip on the inner surface and handle ends.

"C" (Suffix) – Indicates the pliers have a coil spring in the handles for self-opening action.

Pliers Cutting Edges

Knife-edge descriptions refer to the angle of the outside cutting edges of the knives when fully closed.

Standard Cutting Edges

Cuts hard wire. Found on all Klein side cutters, long nose, and on most diagonal-cutting pliers.



Semi-Flush Cutting Edges

Closely cuts medium wire. Found on select Klein diagonal cutting pliers.



Full-Flush Cutting Edges

Close, flat cutting of soft wire only. Found on select diagonal-cutting pliers.



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Pliers Dimensions

All Klein pliers are listed with necessary dimensions in both inches and millimeters. The following drawings of six basic types of pliers are keyed by letter to the dimensions given for each pliers listed. All dimensions are subject to commercial tolerances.

A – Overall Length

D – Jaw Thickness

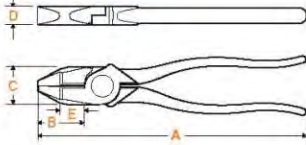
B – Jaw Length

E – Knife Length

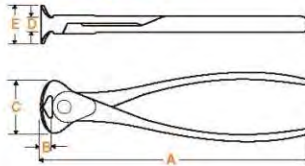
C – Jaw Width

F – Point Thickness

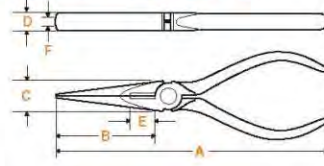
1. Side-Cutting Pliers



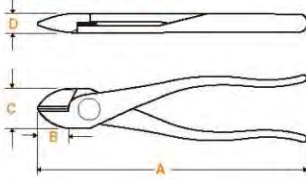
3. End-Cutting Pliers



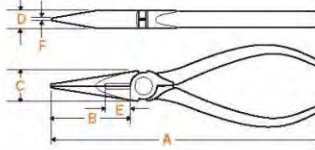
5. Flat-Nose and Duck-Bill Pliers



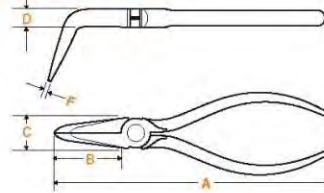
2. Diagonal-Cutting Pliers



4. Long-Nose Pliers



6. Curved-Nose Pliers



Pliers dimensions shown are accurate within accepted commercial tolerances, which allow slight variations that normally result from forging and grinding operations.

Side-Cutting Pliers

Features:

Custom,
US-made
tool steel.

"Handform" handles
for full gripping and
cutting power.

Plastic-dipped handles[†]
for comfort and ease of
identification.

Unique handle tempering
helps absorb the "snap"
when cutting wire.

Hot-riveted joint
ensures smooth action
and no handle wobble.

Induction
hardened
cutting knives
for long life.

Precision-
hardened plier head
for on-the-job toughness.

Sure-gripping
cross-hatched
knurled jaws.

2000 SERIES® pliers available.
Cuts ACSR, screws, nails, and most
hardened wire.

[†]Journeyman pliers available. State-of-the-art, dual-material handles,
which provide a better grip without sacrificing tool strength or durability.



All dimensions are in inches and (millimeters).

WARNING: Always wear approved eye protection.

WARNING: NOT insulated. Plastic-dipped or slip-on plastic handles are NOT intended for protection against electrical shock.