



AVEN Accu-Cut

World's Finest Cutters & Pliers

Made in the USA



Available In:

Carbon Steel | Stainless Steel | Carbon Steel w/Tungsten Alloy Inserts



Accu-Cut Pliers & Cutters

Choosing the Correct Cutter for your application

Accu-Cut Cutters are offered in carbon steel, stainless steel and carbon steel with Tungsten Alloy Cutting Edges.

Our **Carbon Steel** cutters feature cutting blades with a hardness of C63-65. These cutters are recommended for application where durability is critical.

Our **Stainless Steel Series** are recommended for application where rust and contamination is an issue,

such as clean rooms, biotechnology, pharmaceutical, and aerospace. These cutters are less durable than our carbon steel cutters. The hardness on the cutting blades is C53-55.

Our **Carbon Steel Cutters with Tungsten Alloy** Inserts are recommended for cutting Fine Hard Wire.

Head Shape



Oval

Oval Head Cutters are strong, versatile and long-lasting, this most popular shape can be used for many applications. Designed to be durable through hundreds of thousands of cuts. Options: regular and large style; with short or long handles; with relief head or standard.



Tapered

Tapered Head Cutters provide a more compact design for increased operator access, a wide cutting range and long tool life. The Tapered Relief head features tapering on both sides and head relief for maximum access into difficult areas. Cutting range and tool life may be slightly reduced.



Angulated

Hi-Performance Tip Cutters have a very long jaw that extends the cutting edges far out from the joint. These cutters are very often used for cutting exceptionally fine, delicate wire or leads such as on circuit boards.

Cutting Edges

Aven Accu Cut Cutters are available in Semi Flush, Flush and Razor Flush® Cutting Edges.



Semi-Flush

Cutting edges have a slight bevel, which produces cuts with a small pinch on the tip of the cut wire. Longest cutting life.



Flush

Cutting edges have a minimum bevel, which produces cuts with a very small pinch



Razor Flush®

Cutting edges have no bevel, which produces cuts with no pinch on the tip of the cut wire. Reduced cutting life.

Benefits of Using Accu-Cut Pliers & Cutters

CUTTING PERFORMANCE... Lowest Cost per Cut

- Cuts before edges become dull (Often hundreds of thousands of cuts are possible)
- Cutting access in small or confined areas
- Cutting fine wire or leads equal to or thinner than the width of a human hair
- Cutting fine hard wire (Wire made from stainless steel or tungsten can be cut without nicking of cutter edges)
- Cutting exceptionally flush

VALUE

- Low price for high performance and high quality
- Expert application advice

QUALITY

- Reliability and consistency of operation
- Designed for the cutting task
- Blade sharpness and hardness
- Smoothness of operation
- Balance and feel
- Workmanship and appearance
- Ruggedness

COMFORT

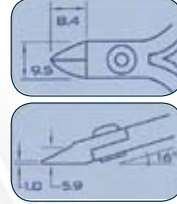
- Ergonomically designed ESD Safe Grips for exceptional comfort
- Dual leaf springs for ease of use
- Smooth operation
- Tip Protectors
- Angled cutting edges

Accu-Cut Carbon Steel Cutters

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.

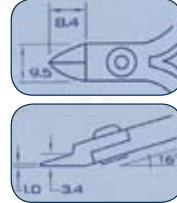


MODEL NUMBER	Cutting Edge	Cutting Capacity*
10821S	Semi-Flush	.20 to 1.20mm
10821F	Flush	.15 to 1.15mm
10821R	Razor Flush®	.10 to 1.00mm

Oval Head Cutter w/relief



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

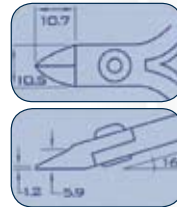


MODEL NUMBER	Cutting Edge	Cutting Capacity*
10822S	Semi-Flush	.20 to 1.15mm
10822F	Flush	.15 to 1.10mm
10822R	Razor Flush®	.10 to 0.90mm

Large Oval Head Cutter



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

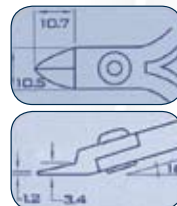


MODEL NUMBER	Cutting Edge	Cutting Capacity*
10823S	Semi-Flush	.20 to 1.50mm
10823F	Flush	.15 to 1.20mm
10823R	Razor Flush®	.10 to 1.15mm

Large Oval Head Cutter w/relief



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



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10824S	Semi-Flush	.20 to 1.40mm
10824F	Flush	.15 to 1.20mm
10824R	Razor Flush®	.10 to 1.15mm

Tapered Head Cutter



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



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10825S	Semi-Flush	.20 to 1.10mm
10825F	Flush	.15 to 1.15mm
10825R	Razor Flush®	.10 to 1.00mm

Tapered Head Cutter w/relief



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



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10826S	Semi-Flush	.20 to 1.10mm
10826F	Flush	.15 to 1.00mm
10826R	Razor Flush®	.10 to 0.90mm

*Diameter of Soft Copper wire

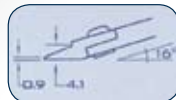
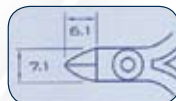


Accu-Cut Carbon Steel Cutters

Miniature Oval Head Cutter



SMT Cutter, 30% smaller head than standard oval cutters.

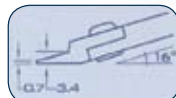
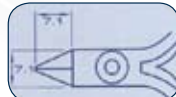


MODEL NUMBER	Cutting Edge	Cutting Capacity*
10827S	Semi-Flush	.20 to 1.10mm
10827F	Flush	.10 to 1.00mm
10827R	Razor Flush®	.10 to 0.80mm

Miniature Tapered Head w/relief



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.



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10828S	Semi-Flush	.20 to 1.10mm
10828F	Flush	.10 to 1.00mm
10828R	Razor Flush®	.10 to 0.80mm

Tip Cutter High Relief



Tip cutter with a deep relief for an exceptional low profile. Short sturdy jaw. Razor Flush™ cutting edges.



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10830R	Razor Flush®	.10 to 0.65mm

Small Tip Cutter



Most popular tip cutter. Jaw is twice as long as standard cutters. Razor Flush™ cutting edges.



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10831R	Razor Flush®	.10 to 0.65mm

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.



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10832R	Razor Flush®	.05 to 0.40mm

Angulated Mini 50° Cutter



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



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10833F	Flush	.10 to 0.65mm

*Diameter of Soft Copper wire



Technical drawing of a tool with dimensions: 50°, 5.6, 127, 146, 18, 5.6.

MODEL NUMBER	Cutting Edge	Cutting Capacity*
10834F	Flush	.10 to 0.65mm

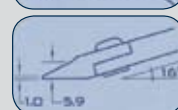


Technical drawing of a mechanical part with dimensions:

- Top view: 7.9, 5.62
- Side view: 1.27, 1.46, 1.8, 7.4

MODEL NUMBER	Cutting Edge	Cutting Capacity*
10835R	Razor Flush®	.10 to 0.65mm

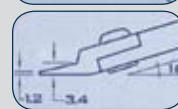
Accu-Cut Stainless Steel Cutters



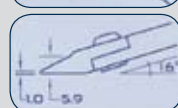
MODEL NUMBER	Cutting Edge	Cutting Capacity*
10421S	Semi-Flush	.20 to 1.20mm
10421F	Flush	.15 to 1.50mm



A diagram of a rocket with a width of 10.7 and a height of 10.5.



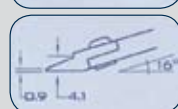
MODEL NUMBER	Cutting Edge	Cutting Capacity*
10422S	Semi-Flush	.20 to 1.50mm
10422F	Flush	.15 to 1.50mm



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10425S	Semi-Flush	.20 to 1.10mm
10425F	Flush	.15 to 1.10mm



A diagram of a fish with a length of 7.1 and a tail length of 6.1.



MODEL NUMBER	Cutting Edge	Cutting Capacity*
10432S	Semi-Flush	.20 to 1.10mm
10432F	Flush	.10 to 1.00mm

*Diameter of Soft Copper wire



Accu-Cut Hard Wire Cutters | W-Series

Accu-Cut W-Series cutters are made entirely from a solid alloy of tungsten, cobalt, chromium and vanadium to have cutting edges that are very sharp and very hard. The cutting edges are hardened by a special heat-treating process to a hardness exceeding 67 on the Rockwell C scale. The hardness of the edges extends to a significant case depth. The razor-sharp edges cut hard wire in stainless steel, nickel, Nitinol (nickel and titanium), and tungsten as fine as 0.025mm (0.001"). Generally, the maximum wire diameter is 0.20mm (0.008").

Miniature Tapered Relief Head



Miniature Tapered Relief Head Tip Size (LxW): 7.1 x 7.1mm

MODEL NUMBER	Cutting Edge	Cutting Capacity*
10828FW	Flush	.08 to 0.25mm

Miniature Oval Head



Miniature Oval Head Tip Size (LxW): 6.1 x 7.1mm

MODEL NUMBER	Cutting Edge	Cutting Capacity*
10827FW	Flush	.08 to 0.25mm

Accu-Cut Hard Wire Cutters | T-Series

Accu-Cut T-Series cutters are made from precision machined cutter blanks in which solid tungsten carbide material has been silver brazed in the cutter jaw. Diamond grinding then forms the head shape and sharpens the cutting edges. This tool design, with its dual material construction, combines the high yield strength of carbon steel with the intense localized hardness of tungsten carbide. Cutting edges of T-Series cutters have a hardness of 79 to 81 HRC. T Series cutters can cut thicker hard wire than W Series solid tungsten/cobalt alloy steel cutters. Jaws of T-Series cutters are tougher than those of solid tungsten/cobalt alloy steel. The oval head T-series cutters will cut Tungsten wire up to 0.020" diameter.

Oval Head



Oval Head Tip Size (LxW): 8.4 x 9.5mm

MODEL NUMBER	Cutting Edge	Cutting Capacity*
10821ST	Semi-Flush	.20 to 0.65mm
10821FT	Flush	.20 to 0.65mm

Tapered Head



Tapered Head Tip Size (LxW): 8.4mm x 9.5mm

MODEL NUMBER	Cutting Edge	Cutting Capacity*
10825FT	Flush	.20 to 0.51mm

50° Head



Tapered Head Tip Size (LxW): 10.7mm x 9.2mm

MODEL NUMBER	Cutting Edge	Cutting Capacity*
10834FT	Flush	.13 to 0.51mm

Accu-Cut High Precision Pliers

Chain Nose Pliers Standard 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. Tip Dimensions: 1.2mm W x 1.4mm H (.050" x .060")

MODEL NUMBER	Jaw Type	Jaw Length
10841	Smooth	33mm (1.30")
10842	Serrated	33mm (1.30")

Chain Nose Pliers Short Jaw



Same features as the standard jaw pliers but with a shorter jaw length. Available in smooth jaws. Tip Dimensions: 1.2mm W x 1.4mm H (.050" x .060")

MODEL NUMBER	Jaw Type	Jaw Length
10843	Smooth	19mm (0.75")

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")

MODEL NUMBER	Jaw Type	Jaw Length
10845	Smooth	31.7mm (1.25")

Round Nose Pliers



The long jaws makes it possible to form a wide range of loop diameters. Tip Diameter: 0.7mm (.030")

MODEL NUMBER	Jaw Type	Jaw Length
10846	Smooth	31.7mm (1.25")

Flat Nose Pliers



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 the risk of workpiece damage. Flat nose pliers have tips that are 3.5mm (.140") wide.

MODEL NUMBER	Jaw Type	Jaw Length
10847	Smooth	31.7mm (1.25")



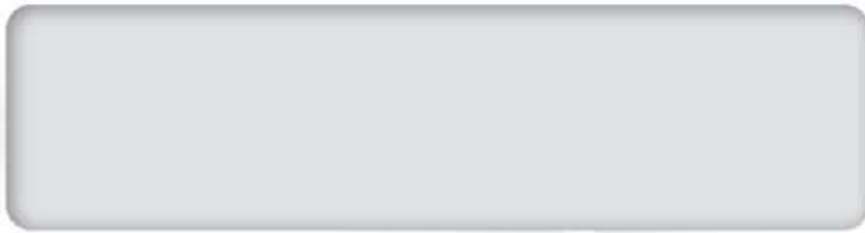
GUIDE TO CUTTER APPLICATIONS

This chart provides a general guideline for cutter model selection. Final selection should be made on the basis of the specific cutting task to be performed and examination of the specific cutter model design.

General Electronics	10821S 10822S 10825S 10826S 10831R 10830R 10835R
Fine Electronics	10821F 10822F 10825F 10826F 10827F 10830R
Exceptionally Fine Electronics	10821R 10825R 10826R 10827R 10828R 10833F 10831R 10830R 10832R
Exceptionally High Visibility Cutting	10822F 10826F 10828F 10830R
Wire Harness Manufacturing	10823S
Jewelry Making	10821S 10821F 10821R 10830R 10826F 10826R
Stringed Musical Instruments	10823S
Watch & Camera Repair	10821S 10826F
Model Building & Hobby	10821S 10821F
Medical Device	10821FT 10825FT 10827FW 10828FW 10834FW
Telephone & Communication	10821S 10821F



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