

Medical Device

Micro Assembly



**Tools for
Advancing
Innovation™**

Magnifiers

Cutters

Pliers

Quality Assurance

Inspection

Tweezers

Electronics

Magnifying Lamps



Advancing Innovation for 40 Years

NEW PRODUCTS!

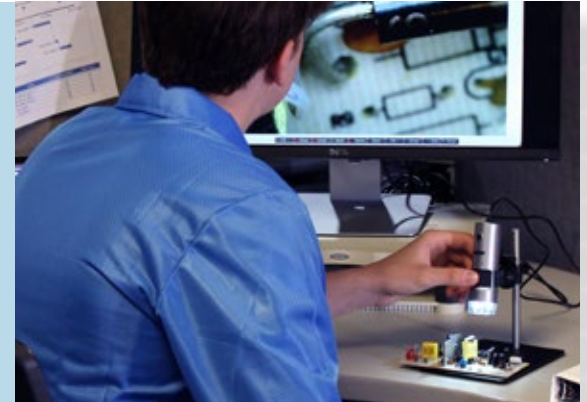


Mighty Scope v2

Small but Mighty

- 10x - 200x~ Magnification (based on a 24" monitor)
- USB Plug & Play
- Microviewer Plus Software optimized for the Mighty Scope v2

SEE ON PAGE: 3



UV Magnifier

Hand-Held Magnifier w/ UV & White LEDs

- 18 White LEDs with two intensity levels (4 watt)
- 26 UV LEDs (8 Watt)
- 5 Diopter high quality glass lens & 12 diopter spot lens

SEE ON PAGE: 15



Mighty Vue Inspector

Magnifying Lamp w/ Built-in Camera

- View images through the magnifying lamp and external monitor
- View/Save images on a micro SD Card
- Frosted diffuser with color temperature controls

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Visit our website
to learn more!





Mighty Scope v2

Digital Microscope

Small, but Mighty

In a fast-moving production environment, it is crucial to be able to inspect, document and share with ease. The Mighty Scope is your own personal digital inspection system that goes anywhere you do. All you need is a

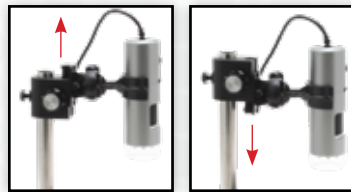
laptop or computer with a USB port. It could just be a quick spot check on a part for compliance or the need to capture and document a defect with notes. This simple and powerful scope can do it all!

Plug & Play
Connect to PC via USB

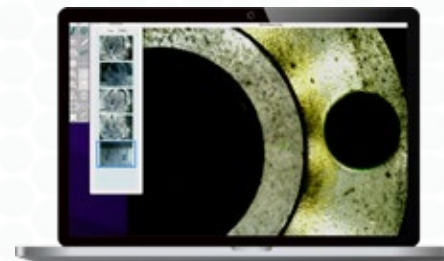
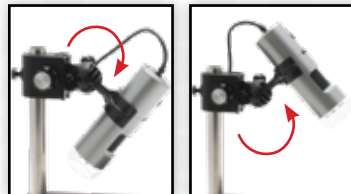
Up to 200x
Digital Magnification
10-50x
Optical Magnification

Adjustable Illumination
Built-in 8 white-light LEDs

MicroViewer Plus Software
Inspect, measure, capture images/videos & more



Adjustable Focus Mount



Easy Plug-and-Play USB Connection to PC w/ Included Software



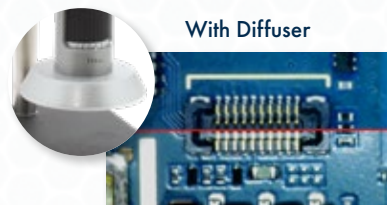
High Magnification, Exceptional Clarity



8 White-light Adjustable LEDs



Great for a Wide Range of Applications



With Diffuser

Without Diffuser

Optional Diffuser

26700-218-DIFF

The diffuser provides soft & even illumination for shiny and reflective parts



With Polarizer

Without Polarizer

Optional Polarizer

26700-219

The polarizer reduces glare and hot spots while enhancing contrast



Learn more about the Mighty Scope v2!

Specifications

Model Number	26700-218			
Magnification	10x - 200x~			
Resolution	5MP, 2592 x 1944			
Working Distance	10x: 112mm	20x: 42mm	30x: 19mm	40x: 8.5mm
Illumination	8 White-light adjustable LEDs			
Output	USB			

Versatile. Compact. Clear.

Whether on a production floor to aid in assembly or in a machine shop to quickly examine a part and capture an image, the Mighty Scope ClearVue can do it all - without the eye strain of frequent microscope use. This all-in-one scope features a built-in screen and includes all the functions required for inspection applications such as

image capture, grid-lines, HDMI output and rechargeable battery for cordless operation. This system can also be connected to a PC for use with our ezImageX3 software. A new addition to the reputable Mighty Scope family of products, used by industries ranging from museums to jet engine manufacturers.

Full HD
1080p 60FPS

5" Built-in
HD Screen

Rechargeable
Battery

Operate Without
a Power Supply

SD Card
Included

Save Images
& Videos

ezImageX3
Software Included

Measure, Share
and Annotate



HDMI Output: View on HD Monitor



USB Output: Connect to Measurement Software



Capture HD Images/Videos to an SD Card



USB Mode - ezImageX3 Software Included



HDMI Mode - Ideal for Demonstrations



Optional Configurations

The Mighty Scope ClearVue can be configured with optional stands to increase working distance, flexibility, and to enhance your workspace.

With Diffuser



Without Diffuser

Optional Diffuser

26700-220-DIFF

The diffuser provides soft & even illumination for shiny and reflective parts



Learn more about
the **Mighty Scope**
ClearVue!

Specifications

Model Number	26700-220-MNT	
Magnification	8x - 25x (built-in monitor)	40x - 120x (based on a 24" external monitor)
Working Distance	45mm - 95mm	
Interface	Mini USB - Type A/HDMI	
Software	ezImageX3	

Mighty Scope Clearvue

Digital Microscope



Cyclops 3.0

Digital Microscope

Over Engineered, Not Overpriced

Sometimes you just need real time magnification to complete a process, other times you need to measure, analyze, and document. Finding an inspection unit that does all this without breaking the bank is what we designed the Cyclops 3.0 to do. The price point, large working distance and live HDMI image make this unit ideal for production floors, large and small.

Should you need to analyze or document an image, the built-in USB output connects to your PC, preventing the down time of switching to a new system for these features. Everything you want is in one affordable unit with the Cyclops 3.0.



Learn more about
the Cyclops 3.0!



HDMI Output: View on HD Monitor

USB Output: Connect to Measurement Software

Key Features

- Dual Outputs: HDMI and PC Modes
- Advanced measurement software included for PC Mode (via download)
- Crystal-clear 1080p Full HD
- USB 3.0 Output
- 13x-140x Magnification (based on a 24" monitor)



Dual
Outputs

USB &
HDMI

High
Magnification

Up To
140x*

Fast Refresh
Rate

USB
3.0

Advanced
Software

Measure &
Report



Capture Stunning Image and Video Files



Control the Cyclops' features such as focus and lighting with the infrared remote control



Adjustable LED Illumination

Specifications

Model Number	26700-423
Magnification	13x - 140x (based on a 24" monitor)
Field Of View	40mm - 3.8mm
Software	<ul style="list-style-type: none">• Image capture software provided with Cyclops includes measurement and editing tools.• For PC cam use, the software offers Compare mode, Measurement mode and Device Control mode.
Output	HDMI + USB 3.0 1080p Full HD

MicroVueTM

Digital Microscope



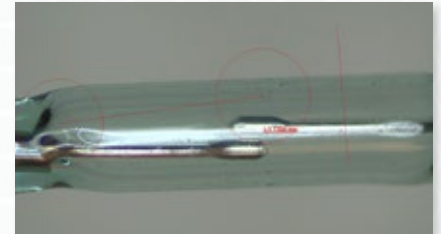
Inspection Simplified

Viewing small parts or components often meant putting a complicated high magnification system together, piece by piece. While these systems can be highly effective, they often come with a hefty price tag and require an intricate assembly. A high quality but affordable, All-In-One, Plug and Play option was needed in the marketplace.

We answered that need with the Aven MicroVue: An easy-to-use digital microscope with a built-in monitor, which gives you a crystal-clear view of extra small parts at high magnification. The MicroVue also comes with all the features you would expect in an All-In-One system, like HDMI output, image capture to USB, and on-screen measurement.



Exceptional Clarity



Integrated Measurement Software



HDMI - view on a larger monitor

Specifications

Model Number	26700-140	
Magnification	17x - 110x (built-in monitor)	31.9x - 204.8x (based on a 21.5" external monitor)
Field Of View	18.5*10.5-2.8*1.5	
Image/Video Capture	1920 x 1080 jpg / mpg	
Software	Integrated software with measurement tools, image/video capture, and screen adjustment settings	
Output	HDMI 1080p Full HD	



Optional 360 Viewer

26700-140-3DA

The 360 Viewer rotates to give a 35 degree angled view

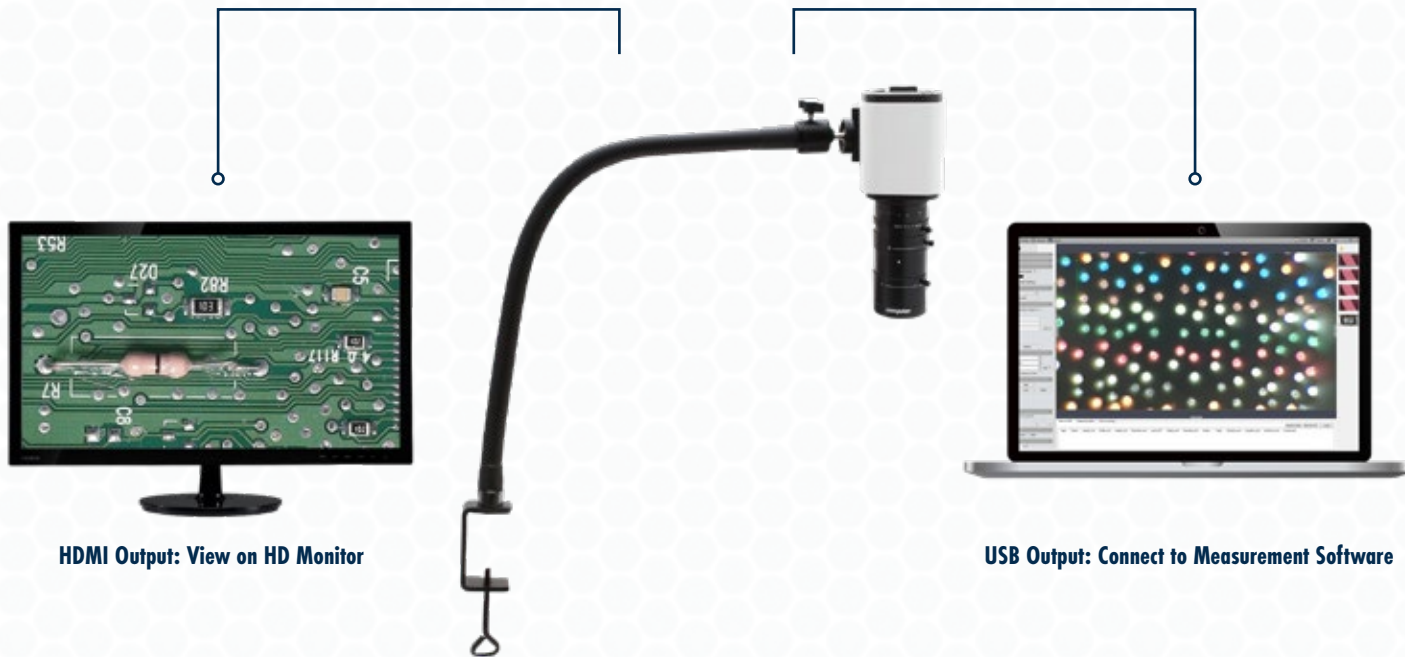
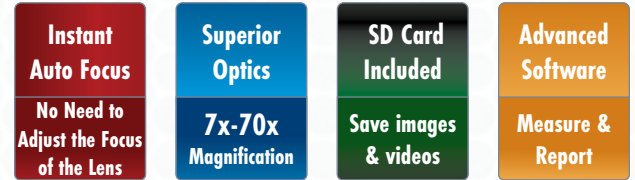


Learn more about the MicroVue!

Ultimate FLEXibility

Inspection requirements change as your processes and parts evolve. Having a world class vision system that easily changes with your needs keeps your operation running uninterrupted, with minimal down time. AutoFlex allows you to change out key components such as lenses and lighting without the burden of replacing an entire system.

Superior HD image quality, built in measurement and image capture, adaptable lighting and exceptional optics make this the most versatile and efficient vision system for your production floor or in your lab.



HDMI Output: View on HD Monitor

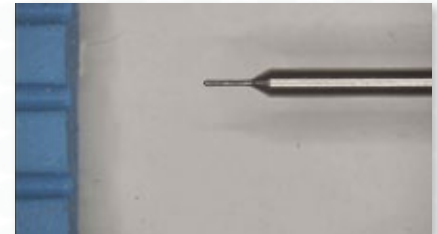
USB Output: Connect to Measurement Software



Perfect Color Reproduction



Flexible and Easy to Maneuver



Real Time Depth of Field Fusion



Learn more about
the AutoFlex!

Specifications

Model Number	26700-121-PRO
Magnification	7x - 70x (based on a 22" monitor)
Resolution	2MP, 1920 x 1080
Software	<ul style="list-style-type: none"> Integrated Measurement System: Powerful Measurement Functions and a Simple Calibration Tool Software For PC: Auto Focus Fine Tuning, Efficient Measurement, Attribute Editing and more
Output	HDMI + USB (For use with a PC or an HD monitor)



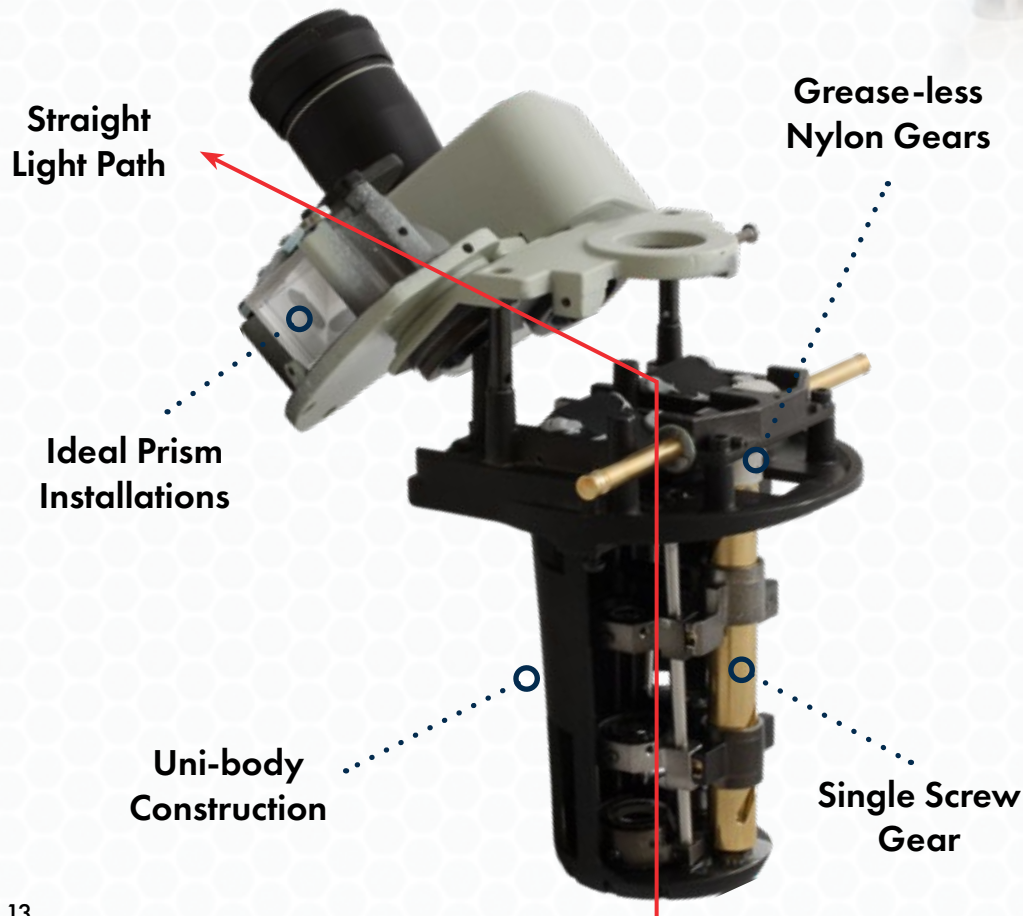
AutoFlex

Digital Microscope

Stereo Zoom Microscopes

Microscope Quality Matters to Your Process

Every stage of your process is important and tasks done under a microscope can play a critical role in keeping your operation running efficiently. If a microscope does not meet expectations, your entire process can come to a halt. This costs you time and money. That is why Aven Stereo Microscopes are built to a higher standard. Virtually greaseless, the knobs will not slip over time, the single lens design will prevent double vision, and custom cut prisms allow for a straight light path giving you a crisp, clear image throughout the life of the scope.





Learn more about
our microscopes!



Trinocular Microscope w/ Mighty Cam Eidos 5M

Aven's Mighty Cam Eidos 5 mega-pixel camera with a built in 11.6-inch screen can be attached to a trinocular microscope or video lens with a C or CS mount. The camera features a 5M Sony sensor that provides stunning high-quality images for you to view on the built in 11.6" HD monitor. This eliminates the eye strain and body fatigue associated with frequent optical microscope use.



Trinocular Microscope w/ Mighty Cam Pro

True trinocular microscope providing crisp clear 3D images, long working distance and a wide field of view. Includes Aven's Mighty Cam Pro, a USB+HDMI auto focus camera. View live images on an HD monitor or on a computer via the included Mosaic software. The camera also features an SD card slot for capturing images without a PC.



Wide View UV Magnifier

Hand-Held Magnifier with Ultraviolet and White LEDs



Unmatched Functionality

As inspection processes become more demanding, even the simplest tools such as hand-held magnifiers need to become more versatile and modernized. The Wide-View UV Magnifier was designed to meet the function and performance standards for today's applications. Featuring both White and UV LEDs, this magnifier is ideal for standard inspection or examining objects that fluoresce such as circuit boards, money, documents etc.

The crystal-clear rectangular lens offers a wide viewing area at 2.25x magnification, with a 1" spot lens providing 4x magnification. The ESD Safe build ensures that static buildup will not reach any sensitive components below the magnifier. Features a rechargeable battery for hours of uninterrupted use.

**5 Diopter
High Quality
Glass Lens**
Additional 12
diopter spot lens

**26 UV
LEDs**
18 White LEDs
(two intensity
levels)

**Long LED
Life**
White LEDs
(36,000+ Hours)
UV LEDs
(30,000+ Hours)

**Rechargeable
Battery**
UV LEDs: 2 Hours
White LEDs: Up to
6 hours



Professional
Inspection



Education



Reading



Home Use



Collecting



Learn more about our
Hand-Held Magnifiers!



18 Bright White LEDs w/ Two Intensity Levels



26 UV LEDs



Portable & Convenient

Specifications

Model Number	26060	
Magnification	5 Diopter (2.25x) high quality glass lens	12 Diopter (4x) spot lens
Lens Dimensions	93mm x 43mm (3.7" x 1.7") Main lens	25mm (1") Spot diopter lens
LEDs	18 White LEDs (6500k)	26 UV LEDs (365nm)
Battery	400 mAh Rechargeable lithium ion battery	



ESD Safe

The Light You Want, Built to Last

Magnifying lamps can be found anywhere, from hobbyist benches to medical device manufacturer assembly floors. Each application is unique and the right lighting can be critical for your process. The Mighty Vue Pro features a large rectangular lens providing a wide viewing area, with adjustable lighting controls that allow users to

customize the LED brightness and color temperature from white to a soft amber illumination. The lamp is durable and built to last, and unlike other magnifying lamps in its class, the Mighty Vue Pro lamps feature a fully enclosed arm free of pinch hazards and exposed springs.

Crystal-Clear Viewing
7.5" x 6.2"
Extra-wide glass lens

Energy Efficient LEDs
Minimum 20,000 hours of LED life

Heavy-Duty Desk Clamp
Easy attachment to desks & bench-tops

Fully Covered Spring Arm
Stays set in any position w/o pinch hazards

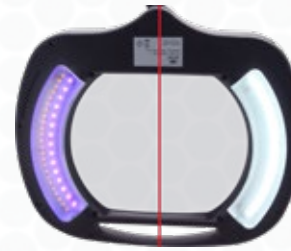
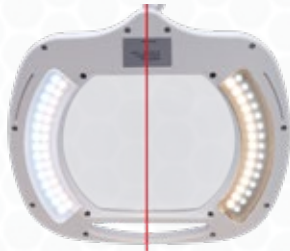
Model Number:
26505-LED-XL3



Model Number:
26505-ESL-XL5



Model Numbers:
26505-ESL-XL3-UV
&
26505-ESL-XL5-UV



Crystal-Clear 7.5" x 6.2" Glass Lens



Lamp Provides up to a 36" (914mm) Reach



Adjustable 360° Swivel Lamp Head



**Learn more about
the Mighty Vue Pro!**

Specifications

Model Number	26505-LED-XL3	26505-ESL-XL5	26505-ESL-XL3-UV	26505-ESL-XL5-UV
Diopter	3 Diopter (1.75x)	5 Diopter (2.25x)	3 Diopter (1.75x)	5 Diopter (2.25x)
Illumination	30 Cool LEDs (6500K) 30 Warm LEDs (3500K)	30 Cool LEDs (6500K) 30 Warm LEDs (3500K)	48 Cool LEDs (6500K) 30 UV LEDs (400nm)	48 Cool LEDs (6500K) 30 UV LEDs (400nm)
ESD Safe		✓	✓	✓
Reach	Up to 36" (914 mm)	Up to 36" (914 mm)	Up to 36" (914 mm)	Up to 36" (914 mm)



Mighty Vue Pro

Magnifying Lamp



Mighty Vue Inspector

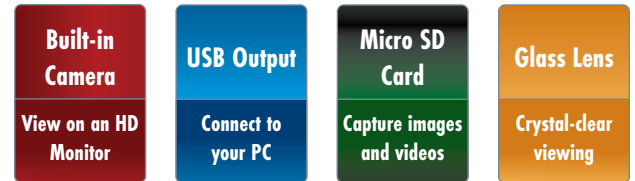
Magnifying Lamp w/ Built-in Camera

Patent Pending

Re-imagine Your Magnifying Lamp

Magnifying lamps have been a staple in factories, labs, and on individual work benches for years – remaining largely unchanged in functionality. And while innovations in stereo zoom microscopes have made cameras a common feature, the Magnifying Lamp has been overlooked... Until now.

The Mighty Vue Inspector is a magnifying lamp and camera inspection system in one self-contained unit – allowing you to view the image directly on an HDMI monitor, capture and store images on the included microSD Card, and even connect to your PC for viewing or relocating saved images, and additional software features.



Inspect through a Monitor & Magnifying Lens



Frosted Diffuser w/ Color Temperature Controls



Tilt the camera to adjust the image on screen to your desired angle



Specifications

Model Number	5 Diopter ESD Safe (Black): 26512-CAM	3 Diopter (White): 26510-CAM
Magnification	5 Diopter Version (Black): 2.25x	3 Diopter Version (White): 1.75x
Reach	Up to 36" (914 mm)	
Illumination	30 High Intensity 6500K (Cool) LEDs 30 High Intensity 3500K (Warm) LEDs	
Output	HDMI + USB	

Additional Magnifying Lamps From Aven



In-X

- Interchangeable Lenses: No tools required
- Capable of 2.25x - 4.75x magnification with the optional lenses
- Ultra-bright LEDs with brightness intensity adjustment



ProVue

- 5" Round glass lens
- Crystal-clear viewing
- Adjustable ultra-bright LED illumination



OptiVue

- Compact & Convenient: 4" 5-Diopter glass lens and 11" flexible gooseneck arm
- Crystal-clear glass lens
- 36 High intensity energy saving SMD LEDs
- Features weighted base for lamp stability

Learn more about our
magnifying lamps!



Cutters & Pliers



Learn more about
our cutters & pliers!



Accu-Cut

Cutters

- **Premium-Grade**
- Screw-Joint Construction
- ESD Safe Ergonomic Grips
- Dual Leaf Springs
- Forged Carbon Steel Cutting Heads
Provide 63-65 HRC



Technik™

Cutters & Pliers

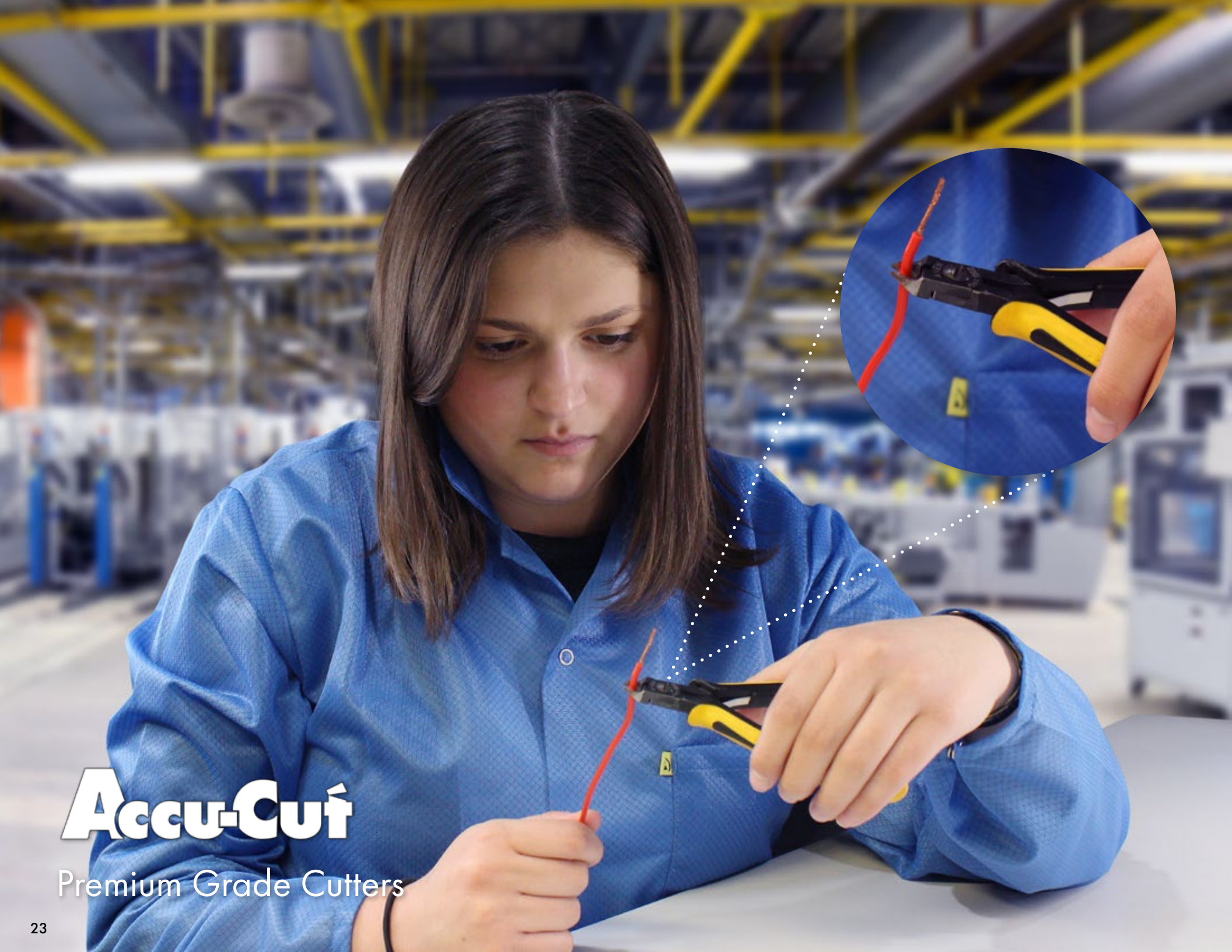
- **Professional Grade**
- Induction Hardened Jaws
- Dual Leaf Springs
- ESD Safe Cushioned Grips
- Made from 400 Series Stainless Steel



NIPTEC

Cutters

- **Industrial-Grade**
- Lap and Rivet Joint Construction
- Compact Ergonomic Design with ESD Safe Grips
- Carbon Steel Narrow Cutting Heads
Provide 56-58 HRC



Accu-Cut

Premium Grade Cutters

Precise Cut, Comfortable Grip, Exceptional Value

While precision cutters may look like simple tools, they require a specialized hand-finishing process for optimal performance. And because cutters are often used for extended periods of time, it is important to ensure that they are comfortable and responsive.

The Accu-Cut Cutter series is the culmination of our effort to provide a precise cut, comfortable ESD Safe grips, and responsive action to reduce hand fatigue. All at tremendous value, with an industry leading return on investment.

ESD Safe Grips

Protects against electrostatic discharge

Forged Steel Cutter Heads

Cutting edges have a hardness of 63 - 65 HRC

Screw Joint Construction

Cutting edges stay in perfect alignment

Ergonomic Design

Provides comfort, increasing productivity

Dual Leaf Spring Release
Reduces hand fatigue

Screw Joint Construction
Cutting edges stay in perfect alignment

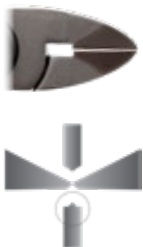
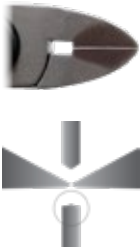


Forged Steel Blades
Flush and Semi-Flush cutting finishes available

ESD Safe Comfort Grips
Comfortable for all hand sizes

Flush

Semi-Flush



Learn more about
our Accu-Cut Cutters!

Specifications

Model	Accu-Cut
Material	Forged Steel, Induction Hardened Blades
HRC Rating	63 - 65 HRC
ESD Resistivity	10 ¹⁰ per square inch



Precision Tweezers



Blu-Tek

- Stainless Steel Titanium PVD Infusion Process
- Scratch and Corrosion Resistant
- ***Designed for Laboratory & Microscopy***



Titanium

- Light Weight, Non-Magnetic
- ESD Safe
- ***Designed for Precision Assembly***



Technik

- Anti-Magnetic, Anti-Acid
- Stainless Steel
- ***Designed for Laboratory & Microscopy***



Artis

- Angled Bend: Reduces Hand Fatigue
- Stainless Steel, ESD Safe
- ***Designed for Laboratory & Microscopy***



E-Z Pik

- Color Coated to Easily Identify Tip Pattern
- 304 Stainless Steel: Anti Acid, Anti-Magnetic
- ***Designed for Precision Assembly***

Platinum Grade

Premium Grade

Specialty Precision Tweezers

Comfort Grip



- ESD Safe Cushioned Grips
- Stainless Steel
- ***Designed for Precision Assembly***

Ceramic



- Stainless Steel w/ Strong Ceramic Tips
- Heat Resistant
- ***Designed for Precision Assembly & Laboratory***

Carbofib



- ESD Safe, Non-scratching Polyetheretherketone Tips Reinforced w/ Carbon Fiber
- Chemical & Heat Resistant
- ***Designed for Precision Assembly & Laboratory***

Cutting



- Carbon Steel
- ***Designed to Cut Soft Metal Wires***

Plastic



- Wear & Heat Resistant
- ***Designed for General Assembly Microscopy***



Learn more about our tweezers!

Celebrating 40 Years of Advancing Innovation

In 1983, when Mike Shahpurwala and Bakir Kanpurwala started this business in Bakir's basement, it was hard to imagine that Aven would evolve from a jewelry tool supplier to a brand recognized for its innovation throughout multiple industries.

In honor of Aven's 40th anniversary, we would like to take a moment to express our sincerest gratitude and appreciation. The support from our customers and business partners have made this milestone possible and we thank you for choosing Aven.

Sincerely,
The Aven Family

