## New At Aven

### Mighty Vue Deluxe LED Magnifying

#### Efficient and Powerful

The innovative Mighty Vue Deluxe LED Magnifying lamp from Aven is the new standard in inspection lighting. This durable aluminum design features a large 7 inch, 5 diopter glass lens for crystal clear, distortion-free viewing. This deluxe lamp also includes dual-row 72 energy-efficient LED lights for shadow-free illumination.

The 36” adjustable friction arm provides a large working range. Simply set your lamp position and lock it in. No springs, no exposed wires and no pinching hazards. The lamp head rotates in any direction to suit your inspection needs, and the convenient touch-sensitive dimmer control offers 5 brightness settings.

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New At Aven

SharpVue HD Video Inspection System
Futuristic, Innovative and Easy to Use

The SharpVue features an auto focus HD camera with optical magnification of up to 20x or 30x, and digital magnification up to 300x depending on the lens used. The SharpVue produces high quality 1080p HD images without any distortion or delay and with excellent depth of field. The built-in LED lights ensure shadow-free illumination even when viewing shiny objects. The SharpVue features a large working distance of 9 inches, ensuring that objects of any size can be inspected. This system is operated with the included wireless remote. Zoom in and out, auto focus on or off, insert a cross hair, fine tune your focus, and much more all with a touch of a button.

Includes HDMI and USB outputs. Connect the SharpVue to your computer via USB cable to utilize the included imaging and measurement software.

<table>
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<tr>
<th>Item#</th>
<th>Description</th>
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<tbody>
<tr>
<td>26700-135</td>
<td>SharpVue Video Inspection System</td>
</tr>
</tbody>
</table>

- Magnification: 20x and 30x
- Resolution: 1080p (monitor) / 720p (Computer)
- Zoom: 20x Optical, 12x Digital
- Output: USB / HDMI
- Lighting: Built-in angled LED
- Focus: Auto/Manual
- Image/Video: With imaging software
- Dimensions: 16.14" x 6.7" x 13.78"
- Weight: 9.9 lbs
- Package Contents: SharpVue system, Imaging Software, wireless remote control

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For more information on SharpVue accessories visit aveninc.com

Built-In Features

Built-in LED lights for shadow-free illumination
USB and HDMI outputs. Connect to your monitor for lag-free 1080p inspection with the HDMI port. Or use the USB port to connect to your PC.

Modern Design, Ease Of Use

The SharpVue offers crystal-clear 1080p imaging, with a magnification of up to 30x optical zoom, 300x Digital zoom. View your images on an HD monitor, eliminating the eye strain and fatigue from frequent microscope use.

For more information on SharpVue accessories visit aveninc.com

SharpVue X-Y Sliding Table
Item # 26700-135-XYTB

SharpVue Tiltable Table
Item # 26700-135-TTB

SharpVue tabletop Stand
Item # 26700-135-STB

Image Capture Box
Item # 26700-401-CB

LCD 1080p Monitor
Item # 26700-406

LED 1080p Monitor
Item # 26700-406

includes HDMI and USB outputs. Connect the SharpVue to your computer via USB cable to utilize the included imaging and measurement software.
This innovative inspection scope connects directly to an HD monitor through a convenient 1080p HDMI output allowing operators to view high quality magnified images while looking straight ahead at a large screen, rather than hunching over narrow eyepieces. A large working distance and 30 LEDs that can be adjusted for intensity allow examination of objects of various sizes. Magnification ranges up to 132x on a 21.5" HD monitor.

This breakthrough instrument increases accuracy and productivity while easing eye strain and user fatigue from frequent microscope use, valuable benefits in high-volume applications.

This innovative inspection scope connects directly to an HD monitor through a convenient 1080p HDMI output allowing operators to view high quality magnified images while looking straight ahead at a large screen, rather than hunching over narrow eyepieces. A large working distance and 30 LEDs that can be adjusted for intensity allow examination of objects of various sizes. Magnification ranges up to 132x on a 21.5" HD monitor.

This breakthrough instrument increases accuracy and productivity while easing eye strain and user fatigue from frequent microscope use, valuable benefits in high-volume applications.

**Cyclops Digital Microscope**

**Objective Lenses**

Aven offers optional objective lenses to make your Cyclops system even more versatile.

- **Cyclops 4x Long Focus Lens**
  - Item #: 26700-400-L4X
  - Provides operators with a working distance of approximately 95mm - 218mm.
  - (3.75 - 8.5 inches)

- **Cyclops Objective Lens 10X**
  - Item #: 26700-400-10X
  - Use of this lens will increase magnification, allowing even further clarity for examining small objects. Includes lighting attachment.

- **Cyclops Objective Lens 4X with Polarizer**
  - Item #: 26700-400-PL01
  - Aiding in the illumination and study of small and shiny parts, this polarized lens reduces problematic glare.

**Add-Ons**

- **Monitor Mounts**
  - Aven's Monitor Mounts clamp to the side of your work bench and provide diverse positioning options. Available with 17 inch and 12 inch posts.

- **Cyclops Articulating Arm Stands**
  - Available with 17 inch and 12 inch posts, the Cyclops Articulating Arm Stands clamp to the side of your work bench and provide diverse positioning options.

- **Cyclops Laser Pointer**
  - Item #: 26700-400-GN02
  - Provides a constant laser point to highlight exact areas for display or inspection. Attaches to the Cyclops stand. Infrared remote control.

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**Cyclops Digital Microscope**

<table>
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<tr>
<th>Effective Pixels</th>
<th>CMOS Color</th>
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<tr>
<td>Frames Per Second</td>
<td>30FPS</td>
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<tr>
<td>Magnification / Zoom</td>
<td>Up to 132x</td>
</tr>
<tr>
<td>LED Lighting</td>
<td>30 White LEDs with brightness &amp; sector control</td>
</tr>
<tr>
<td>Video Output</td>
<td>1920x1080p HD</td>
</tr>
<tr>
<td>Gain Control</td>
<td>Automatic</td>
</tr>
<tr>
<td>Power Source</td>
<td>DC 5A/2A input, Cable length: 180cm</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>0.225A (MAX)</td>
</tr>
<tr>
<td>Dimensions</td>
<td>106 x 152 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.70 lbs.</td>
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</table>

Cyclops HDMI Digital Microscope

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>26700-401</td>
<td>Cyclops HDMI Digital Microscope</td>
<td>$750.00</td>
</tr>
</tbody>
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**Accessories**

** Objective Lenses**

Aven offers optional objective lenses to make your Cyclops system even more versatile.

- **Cyclops 4x Long Focus Lens**
  - Item #: 26700-400-L4X
  - Provides operators with a working distance of approximately 95mm - 218mm.
  - (3.75 - 8.5 inches)

- **Cyclops Objective Lens 10X**
  - Item #: 26700-400-10X
  - Use of this lens will increase magnification, allowing even further clarity for examining small objects. Includes lighting attachment.

- **Cyclops Objective Lens 4X with Polarizer**
  - Item #: 26700-400-PL01
  - Aiding in the illumination and study of small and shiny parts, this polarized lens reduces problematic glare.

**Add-Ons**

- **Monitor Mounts**
  - Aven's Monitor Mounts clamp to the side of your work bench and provide diverse positioning options. Available with 17 inch and 12 inch posts.

- **Cyclops Articulating Arm Stands**
  - Available with 17 inch and 12 inch posts, the Cyclops Articulating Arm Stands clamp to the side of your work bench and provide diverse positioning options.

- **Cyclops Laser Pointer**
  - Item #: 26700-400-GN02
  - Provides a constant laser point to highlight exact areas for display or inspection. Attaches to the Cyclops stand. Infrared remote control.

---

**Cyclops Digital Microscope**

**Objective Lenses**

Aven offers optional objective lenses to make your Cyclops system even more versatile.

- **Cyclops 4x Long Focus Lens**
  - Item #: 26700-400-L4X
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**Add-Ons**

- **Monitor Mounts**
  - Aven's Monitor Mounts clamp to the side of your work bench and provide diverse positioning options. Available with 17 inch and 12 inch posts.
New At Aven

Mighty Cam 3.0
USB Camera

Experience USB 3.0 Speed

Aven’s Mighty Cam 3.0 is the new generation USB3.0 camera. Capable of frame rates more than double of USB 2.0 devices, the Mighty Cam 3.0 is ideal for applications that require reduced image lag times. Simply attach the Mighty Cam 3.0 to your microscope, plug in the USB 3.0 cable and connect to your computer. Includes ezMeasure software to capture stunning images, record video, make accurate measurements and more.

Mighty Cam CCD
USB Camera

See the CCD Difference

The Mighty Cam CCD is designed for challenging lighting and color conditions. The CCD sensor provides precise color reproduction and highly detailed images for your demanding applications. The Mighty Cam CCD is capable of high resolution images with low noise and can precisely capture moving objects.

Digital Microscopes
Inspect, analyze & measure with ease on your PC

Mighty Scope USB
Digital Microscopes

- New models available with 1.3 and 5MP CMOS sensor
- Active Pixel Technology produces sharp and accurate color images
- Microtouch shutter allows for quick and convenient image capture
- Compatible with Windows and Mac
- 10-200x, 500x, UV and Near Infrared models
- Ergonomic design allows comfortable use in either hand
- Includes measurement software and adjustable metal stand
- 10-200x available with polarizer

Mighty Scope Connect
Wi-Fi Digital Microscope

- 6-inch-long microscope can be hand-held or stand-mounted
- 10x to 80x magnification, controlled by changes in working distance
- Creates wi-fi hotspot with 30-foot range
- Works with Androids, Apple iOS tablets and phones
- Snap button on body saves high-quality images

Part # Description Sensor
26100-244 Mighty Cam 3.0 CMOS

Part # Description Sensor
26100-246 Mighty Cam CCD CCD

Part # Description Sensor
26700-201 Mighty Scope Connect Wi-Fi Digital Microscope (10x-80x) CMOS

Part # Description
26700-200 Mighty Scope USB Digital Microscope (10x-200x)
26700-200-PLR Mighty Scope USB Digital Microscope w/Polarizer (10x-200x)
26700-204 Mighty Scope USB Digital Microscope (500x)
26700-205 Mighty Scope USB Digital Microscope w/ UV Illumination (10x-200x)
26700-207 Mighty Scope USB Digital Microscope w/NIR Illumination (10x-200x)
26700-209 Mighty Scope USB Digital Microscope (10-200x)
26700-209-PLR Mighty Scope USB Digital Microscope with Polarizer (10-200x)
26700-216 Mighty Scope USB Digital Microscope (1.3M)
26700-217 Mighty Scope USB Digital Microscope (5M)
26700-216 Mighty Scope 1.3M Polarizer
26700-217 Mighty Scope 5M Polarizer

Part # Description
26700-216 Mighty Scope 1.3M Polarizer

Part # Description
26700-217 Mighty Scope 5M Polarizer

Part # Description
26700-216 Mighty Scope 1.3M Polarizer

Part # Description
26700-217 Mighty Scope 5M Polarizer

Register online to receive updates on the newest products and for the latest specials from Aven.
Digital Microscopes
Inspect, analyze & measure with ease on your PC

Cyclops Digital Microscope
This innovative inspection scope connects directly to an HD monitor as well as to a computer. Operators observe magnified videos or single frames while looking directly at the monitor, rather than straining over narrow eyepieces. A large working distance and 30 LEDs allow examination of sizable objects. Magnification ranges up to 270x on a 21.5” extended monitor or 53x4 for PC viewing.

- Dual output HDMI and USB
- Auto Focus enabled
- Designed to maximize efficiency and operator comfort
- S-magnaplan sensor
- High magnification range and extended working distance
- Up to 273x magnification in HDMI mode and 534x in High magnification range and extended working distance
- LED illumination with intensity control
- Infrared remote control for all major features
- Includes standard 4x objective lens and measurement software

Optional articulating arm stands and 10x lens available

Infrared remote control for all major features

LED illumination with intensity control

Infrared remote control for all major features

Optional articulating arm stands and 10x lens available

Digital Microscope Stands

26700-400 Cyclops Digital Microscope
26700-400-100 Cyclops Objective Lens 1X
26700-400-50 Cyclops Objective Lens Kit
26700-400-01 Cyclops Remote Control
26700-400-CN Cyclops Stand
26700-400-06 Cyclops Articulating LED Stand

26700-400-GN Cyclops Gooseneck LED Lights
26700-400-STN Cyclops Stand
26700-400-L4X Cyclops Objective Lens 4X
26700-400 Cyclops Digital Microscope

26700-214 Mighty Scope Stand with Fine Adjustment
26700-213 Mighty Scope Cradle Stand
26700-212 Mighty Scope Flex Stand
26700-210 Mighty Scope Boom Stand

Product ID Description
26700-210 26700-211

Microscopes

SPZ-50 Series Stereo Zoom Microscopes

- Magnification Range: 6x to 50x (3.35x to 200x with optional lenses)
- Large 7.46:1 Zoom Ratio (6x to 38x in this class)
- Field of View: 34.3mm to 6.6mm (1.35” to 0.25”)
- Working Distance: 108mm (4.25”)
- Includes high eye point DHW15x (FN.23) eyepieces for comfortable viewing even for operators with eyeglasses
- Trinocular body type features click stop zoom adjustment for extremely accurate measuring
- Tripod port includes easy adjust C-mount camera adapter for fine focusing
- Includes rubber eyepiece and dust cover

Optical Data for SPZ-50 & SPZV-50

Field of View

Magnification | 10X | 20X | 5X | 10X | 20X | 30X | 50X | 100X
--- | --- | --- | --- | --- | --- | --- | --- | ---
Working Distance | 108mm | 240mm | 132mm | 108mm | 108mm | 108mm | 108mm | 108mm

Optical Data for SPZ-135 Series Stereo Zoom Microscopes

- Magnification Range: 21x to 135x (14x to 180x with optional lenses)
- 6.41 Zoom Ratio
- Field of View: 38.3mm to 5.4mm (1.5” to 0.21”)
- Working Distance: 82mm (3”)
- Includes high eye point DHW15x (FN.23) eyepieces for comfortable viewing even for operators with eyeglasses
- Includes DHW10x (FN.1.4) optional eyepieces available
- Trinocular body type features click stop zoom adjustment for extremely accurate measuring
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Dual magnification (10x/20x; 10x/30x; 6x/20x)
- Field of view: 58.3mm at 6x
- Field of view: 23mm at 10x
- Field of view: 11.5mm at 20x
- Field of view: 7mm at 30x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 6x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Note: When creating your own microscope system, the 0.5x Auxiliary Lens cannot be used on the SPZ-50 series with stands P, PF, T and TL.

HDMI Monitor sold separately

*Dual-mode scope features HDMI and USB outputs*

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Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 6x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 6x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 6x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 6x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 6x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 6x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover

Optical Data for NSW Series Binocular Stereo Microscopes

- Magnification (Field of View): 10x/20x
- Includes DHW10x (FN.2.5) eyepieces
- Includes rubber eyepiece and dust cover
**DSZ-44 Series Stereo Zoom Microscopes**

- **Magnification Range:** 10x to 44x (2.3x to 10.6x with optional lenses)
- **Zoom ratio:** 4.4:1
- **Field of view:** 22.9 to 5.4 mm (0.90" to 0.21")
- **Working distance:** 105 mm (4.13")
- **Diopter adjustment:** Both eyepiece tubes

Includes rubber eyeguards and dust cover

**DSZ-70 Series Binocular Zoom Microscopes**

- **Magnification Range:** 20x to 70x (5x to 22x with optional lenses)
- **Zoom ratio:** 5.5:1
- **Field of view:** 10mm to 2.8mm (0.39" to 0.11")
- **Working distance:** 84mm (3.3"")
- **Includes:**
  - DSW10xZ (F.N.20) eyepieces
  - DHW15x (F.N.15) eyepieces
  - Adjustable interpupillary distance

Includes wide field DSW10x (F.N.23) eyepieces

**SPZ-135 Stereo Zoom Binocular Microscope on Stand PLED**

- **Magnification Range:** 21x to 135x
- **Zoom Ratio:** 6.4:1
- **Field of view:** 7.1 to 1.1 mm (0.28" to 0.04")
- **Working Distance:** 90mm (3.54"")
- **Includes:**
  - High eye point DHW15x (F.N.15) eyepieces
  - Adjustable interpupillary distance of 50mm to 74mm (1.96" to 2.91")

Pole stand with built-in LED illumination with dimmer control

Multi-coated optical components, free from chromatic and spherical aberration

Coarse and fine focusing, ideal for fine detail work

Register online to receive updates on the newest products and for the latest specials from Aven.

Design Your Own Microscope System

With a large variety of cameras, lighting options, and stands and focus mounts, you can create and order your own customized microscope system on our website. If you need help creating a custom system, please call our experienced sales team and let them assist you in creating a tailor made solution that will meet your specific requirements.

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**SPZHT-135 Stereo Zoom Trinocular Microscope on Stand PLED with HD Monitor**

- **Magnification Range:** 21x to 135x
- **Zoom Ratio:** 6.4:1
- **Field of view:** 10.7x to 1.6mm (0.43" to 0.06")
- **Working Distance:** 84mm (3.3"")
- **Includes:**
  - High eye point DHW15x (F.N.15) eyepieces
  - Adjustable interpupillary distance of 50mm to 74mm (1.96" to 2.91")

One touch fine focus trinocular camera port adjustment for quick, easy camera focus and parfocusing the scope

Pole stand with built-in LED illumination with dimmer control

Multi-coated optical components, free from chromatic and spherical aberration

Coarse and fine focusing, ideal for fine detail work

Monitor helps increase productivity by reducing eye & neck strain

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Stereo Zoom Microscopes
Preconfigured Microscope Systems

**SPZ-50 Stereo Zoom Binocular Microscope on Stand PLED**

- Magnification Range: 6.7x to 50x
- Large Zoom Ratio: 7.461
- Field of View: 34.3mm to 4.6mm (1.35" to 0.18")
- Working Distance: 108mm (4.25"
- Includes high eye point DHW10x (F.N.23) eyepieces for comfortable viewing even for operators with eyeglasses
- Diopter adjustment on both eyepiece tubes
- Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator
- Double Arm Boom Stand delivers smooth movement of a ball bearing slide, letting the microscope glide easily over and across objects being viewed
- Tiltable arbor enables you to angle the microscope for maximum comfort and viewing
- Integrated 60 LED Ring Light with dimmer control
- Multi coated optical components, free from chromatic and spherical aberration
- Coarse and fine focusing, ideal for fine detail work

**DSZ-44 Gemscope on Stand DABS with LED FOI**

- Magnification Range: 10x to 44x
- Zoom Ratio: 4.41
- Field of View: 25.5-2.2mm (0.91" to 0.25")
- Working Distance: 90mm (3.54"
- Includes wide field DSW10x (F.N.23) eyepieces
- Diopter adjustment on both eyepiece tubes
- Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator
- Double Arm Boom Stand delivers smooth movement of a ball bearing slide, letting the microscope glide easily over and across objects being viewed
- High Output LED fiber optic illuminator and ring light provide clear illumination for imaging
- Multi coated optical components, free from chromatic and spherical aberration
- Coarse and fine focusing, ideal for fine detail work

**Product ID Description**

- **26800B-369 SPZ-50 Stereo Zoom Binocular Microscope on Stand DABS & Integrated LED Ring Light**
- **26800B-372 SPZ-50 Stereo Zoom Binocular Microscope on Stand LW & LED Ring Light**
- **26800B-370 SPZ-50 Stereo Zoom Binocular Microscope on Stand DABS & Integrated LED Ring Light**
- **26800B-371 SPZ-50 Stereo Zoom Binocular Microscope on Stand LW & LED Ring Light**
- **26800B-373 SPZ-50 Stereo Zoom Binocular Microscope on Stand LW & LED Ring Light**
- **26800B-374 SPZ-50 Stereo Zoom Binocular Microscope on Stand with Diffuse Axial LED Illuminator**
- **26800B-386 DSZ-44 Gemscope on Stand DABS with LED FOI**
- **26800B-387 DSZ-44 Gemscope w/1080P HD Camera**
- **26800B-388 DSZ-44 Stereo Zoom Binocular Microscope on Stand PLED with Diffuse Axial LED Illuminator**
- **26800B-389 DSZ-44 Stereo Zoom Binocular Microscope on Stand LW with LED Ring Light**

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**Stereo Zoom Microscopes**

**Preconfigured Microscope Systems**

**DSZ-44 Stereo Zoom Trinocular Microscope on Stand PLED**
- **HD Camera and 8” HD Monitor**
  - Magnification Range: 10x to 44x
  - Zoom Ratio: 4.4:1
  - Field of View: 23.5 x 23.5 mm (0.91” x 0.91”)
  - Working Distance: 70mm (2.76”)
  - Includes wide field DF10x eyepieces
  - Diopter adjustment on both eyepiece tubes
  - Adjustable Interpupillary Distance of 52mm to 75mm (2.04” to 2.95”) accommodates any operator
  - 1080P HD cameras for unencumbered imagery
  - Pole stand with built in LED illumination with dimmer control
  - Multi-coated optical components, free from chromatic and spherical aberration
  - Coarse and fine focusing, ideal for fine detail work

**NSW-30 Stereo Binocular Microscope with LW Stand & LED Ring Light**
- **Microscope with Stand PLED**
  - NSW-20 Stereo Binocular Microscope with LW Stand & LED Ring Light
  - Magnification: 10x to 30x
  - Field of View: 10x, 23mm (0.91”)
  - Field of View: 30x, 7.6mm (0.30”)
  - Working Distance: 10mm (0.4”) (4:1.7)
  - Includes wide field DSW10x eyepieces
  - Diopter adjustment on both eyepiece tubes
  - Adjustable Interpupillary Distance of 52mm to 75mm (2.04” to 2.95”) accommodates any operator
  - Mounted on an E-AIMR focus mount attached to a LW articulating arm stand that extends area of view and working distance
  - 50 LED adjustable ring light and 4 sector control
  - Multi-coated optical components, free from chromatic and spherical aberration
  - Coarse and fine focusing, ideal for fine detail work

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**Video Inspection Systems**

**Video Inspection System Lenses**

**Micro Lens System Zoom 640**
- Infinite Optical Design for large depth of field and zoom ratio
- Compact design
- High contrast images and vivid colors

- Avon Micro Lens System produces crisp and clear images that are distortion free and void of chromatic aberration. This lens system comes with Detents which allows you to calibrate the lens for measurement repeatability. Comes standard with 1x C Mount coupler and 1x objective lens. Total magnification is 0.6x to 4x. Field of View is 6 x 8mm at low magnification and 0.8 x 1.2mm at high magnification. Working Distance is 82mm. Additional couplers and objective lenses are available to help you configure a lens system to meet your requirements.

**Product ID | Description**
---
26700-151 Micro Lens System Zoom 640

**Macro Lens System Zoom 7000**
- 6:1 zoom ratio
- 6x magnification over focal range of 18mm to 108mm (0.71” to 4.25”)
- Working Distance 127mm (5”) to Infinity
- Compatible with cameras 16mm (0.67”) or smaller

The Zoom 7000 is a close focusing macro video lens ideal for applications where objects over 21mm (1”) in diameter must be imaged. It offers unsurpassed clarity and parfocal zoom capabilities. Compatible with cameras 2/3 (16.9mm) or smaller. Ideal for quality assurance or assembly applications where easy to view, sharp and true to life magnified image of your product is required.

**Product ID | Description**
---
26700-180 Macro Lens System Zoom 7000

**Create Your Own Custom Video Inspection System**

With a large variety of adapters, auxiliary lenses, cameras, lighting and other accessories you can create and order your own customized video inspection system on our website. If you need help creating a custom video inspection system, please call our experienced sales team and we will meet your specific requirements. Whether you are inspecting objects like integrated circuits, solder joints, and small parts, or you require magnification for precision assembly we can provide a customized solution to fit your needs.
Adapter Plate for Macro Lens Zoom 640
- Adapter for Macro Lens Zoom 640
- For focus mounts (26808B-57 & 26808B-58)
- Outside diameter: 73 mm
- Inside diameter: 46.75 mm
- 22.5 mm height

Adapter Plate for Micro Lens System Zoom 640
- Adapter for Micro Lens 640
- For focus mounts (26808B-517 & 26808B-518)
- Outside diameter: 73 mm
- Inside diameter: 35.21 mm
- 24.9 mm height

Adapter Plate for Macro Lens Zoom 7000
- Adapter for Macro Lens Zoom 7000
- For focus mounts (26808B-517 & 26808B-518)
- Outside diameter: 73 mm
- Inside diameter: 46.75 mm
- 22.5 mm height

Objectives 0.5x
- Objective Lens for Micro Video Lens System Zoom 640
- Reduces magnification by 0.75x
- Color corrected lens system
- Working distance 175 mm (6.9"
- See optical specification chart for more details

Objectives 1.5x
- Objective Lens for Micro Video Lens System Zoom 640
- Increases magnification by 1.5x
- Color corrected lens system
- Working distance 62 mm (2.4"
- See optical specification chart for more details

Objectives 0.75x
- Objective Lens for Micro Video Lens System Zoom 640
- Reduces magnification by 0.75x
- Color corrected lens system
- Working distance 117 mm (4.6"
- See optical specification chart for more details

Objective Lens 1x
- Objective Lens for Micro Video Lens System Zoom 640
- Color corrected lens system
- Working distance 82 mm (3.2"
- See optical specification chart for more details

Objective Lens 2x
- Objective Lens for Micro Video Lens System Zoom 640
- Increases magnification by 2x
- Color corrected lens system
- Working distance 35 mm (1.4"
- See optical specification chart for more details

Objective Lens 5x
- Objective Lens for Micro Video Lens System Zoom 640
- Increases magnification by 5x
- Color corrected lens system
- Working distance 54 mm (2.1"
- See optical specification chart for more details

Optical Data Chart

<table>
<thead>
<tr>
<th>Objective</th>
<th>Working Distance</th>
<th>CCD Coupler</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5x</td>
<td>WD 26700-156</td>
<td>C-Mount Coupler 0.5x</td>
</tr>
<tr>
<td>1x</td>
<td>WD 26700-156</td>
<td>C-Mount Coupler 1x</td>
</tr>
<tr>
<td>2x</td>
<td>WD 26700-156</td>
<td>C-Mount Coupler 2x</td>
</tr>
</tbody>
</table>

Micro Zoom Series 640 PK1
- PC not required for image processing
- Produces crisp clear images
- White LED illumination with intensity control
- Color camera with movable and switchable crosshairs
- On screen menu for controlling color, contrast, white balance etc.
- Heavy Duty Stand includes: 10-tapped holes for mounting x-y stages
- Compact system, helps save bench space
- On screen magnification from 44.2x to 176.9x
- Field of view: 0.7x to 3.1x
- Field of view: 2.34 x 1.5 x 1.1 mm

Micro Zoom Series 640 PK2
- PC not required for image processing
- Produces stunning clear and crisp HD images
- White LED Fiber Optic Illumination provides shadow free illumination
- HD 1080p Color Camera with HDMI output: On screen menu for controlling color, contrast, white balance etc.
- Dual Arm Boom Stand provides stability and eliminates vibrations while allowing you to move over large areas of the object being viewed
- On screen magnification: 19.5x to 263x
- Working distance: 82 mm with 1x Objective Lens
- Field of view: 6 x 8 to 0.9 x 1.2 mm with 1x Objective
- Parfocal lens system

Micro Zoom Series 640 PK3
- PC not required for image processing
- Produces crisp clear images
- White LED illumination with intensity control
- Dual Arm Boom Stand provides stability and eliminates vibrations while allowing you to move over large areas of the object being viewed
- On screen magnification: 19.5x to 340x
- Field of view: 8.8 x 1.3mm
- On screen magnification from 50x to 340x
- Color camera with USB mouse control and Built in Measurement Software
- Measure lines/distance, circles, arcs, and polygons
- On screen menu for controlling color, contrast, white balance etc.
- Compact system, helps save bench space
- Four switchable lens system: 0.7x, 1.56x, 2.34x, and 3.12x
- Field of view: 0.7x to 3.1x
- Field of view: 2.34 x 1.5 x 1.1 mm

Micro Zoom Series 640 with Coaxial Illumination PK 5
- In line coaxial illumination helps reduce when inspecting shiny parts
- Color HD-camera with movable and switchable crosshairs
- On screen menu for controlling color, contrast and white balance
- Parfocal lens system
- Working distance: 64mm
- Field of view: 8.8 to 1.3mm
- On screen magnification from 50x to 340x

Micro Series FM123 PK4 Benchtop Measurement System
- Measure lines/distance, circles, arcs, and polygons
- Produces crisp clear images
- White LED Fiber Optic Illumination
- Color camera with USB mouse control and Built in Measurement Software
- On screen menu for controlling color, contrast, white balance etc.
- Compact system, helps save bench space
- Four switchable lens system: 0.7x, 1.56x, 2.34x, and 3.12x
- Field of view: 0.7x to 3.1x
- Field of view: 2.34 x 1.5 x 1.1 mm
### Video Inspection Systems

**Macro Series Zoom 7000 PK M1**
- Stunning Life Like Picture on 22” HD LCD Monitor
- Large Magnification Range: 3.7x to 61.9x
- Double Arm “Easy Glide” Boom Stand with heavy base for stability
- Parfocal over entire zoom range
- PC not required for image processing
- Heavy Duty Post Stand includes 10 tapped holes for mounting x-y stages

**Macro View Eidos With Standard Stand**
- Wide field of view and long working distance
- 60 LED light with intensity control
- 2x Digital Zoom and Mirror function built into camera
- Compact and Easy to Use
- Focus mount includes course and fine adjustment knobs
- On screen Magnification: 7x - 40x at a 6” working distance

**Product ID** | **Description**
--- | ---
26700-103-00 | Macro Series Zoom 7000 PK M1
26700-105-00 | Macro View Eidos With Standard Stand

**Macro Series Zoom 7000 PK M2**
- Stunning Life Like Picture on 22” HD LCD Monitor
- Large Magnification Range: 3.7x to 61.9x
- Double Arm “Easy Glide” Boom Stand with heavy base for stability
- Parfocal over entire zoom range
- PC not required for image processing
- 6:1 zoom allows for quick magnification of area of interest

**Macro View Eidos With Gliding Boom Stand**
- Wide field of view and long working distance
- 60 LED light with intensity control
- 2x Digital Zoom and Mirror function built into camera
- Compact and Easy to Use
- Focus mount includes course and fine adjustment knobs
- On screen Magnification: 7x - 40x at a 6” working distance

**Product ID** | **Description**
--- | ---
26700-103-10 | Macro Series Zoom 7000 PK M2
26700-105-10 | Macro View Eidos With Gliding Boom Stand

**Macro Series Zoom 7000 PK M3**
- Stunning Life Like Picture on 22” HD LCD Monitor
- Large Magnification Range: 3.7x to 61.9x
- Large working distance: 117.8 to 304.8mm
- 6:1 zoom allows quick magnification of area of interest
- Light weight articulating arm with E-Arm allows users to cover a large working area and move microscope out of the way when not in use
- Parfocal over entire zoom range
- PC not required for image processing

**Product ID** | **Description**
--- | ---
26700-103-20 | Macro Series Zoom 7000 PK M3

### Microscope & Video Accessories

**CCD & CMOS Cameras**

**Mighty Cam USB SM CMOS Camera**
- The Mighty Cam USB SM CMOS camera includes with software which produces stunning images with exceptional clarity for measuring, analyzing and annotating your magnified images. The large 5M CMOS sensor provides excellent color fidelity offering true color images which are created by the software. The versatile CCS lens mount adapter ring attaches between camera and lens, and converts a CS-Mount lens to C-Mount camera to achieve a focused image.
- Provides wide, dynamic range and crisp, natural color reproduction in any lighting
- USB CMOS Cameras with ezMeasure Software
- CMOS Sensor (2592 x 1944)
- Easy Plug and Play USB 2.0 Interface
- Compact and Lightweight
- Versatile CCS lens mount
- Ideal for inspection, scientific image analysis, biomedical research
- 6:1 zoom allows for quick magnification of area of interest

**Product ID** | **Description**
--- | ---
26100-234 | Mighty Cam USB SM CMOS Camera

**Mighty Cam VGA Color Camera**
- Produces crisp and clear color images in wide screen format
- Auto gain exposure setting to reduce glare
- Multiple cross hair for quick gaging
- Connects directly to an HD monitor with HDMI input
- Built in USB Flash Drive for saving images
- Live/Freeze Image function
- Multiple cross hair for quick gaging
- Produces stunning life like images with exceptional clarity
- Aven’s color VGA camera allows you to connect directly to a PC monitor. A PC is not required for image processing, thus saving you precious space. In addition, a built-in USB 2.0 card allows you to save images. All features of this digital camera can be controlled via on screen menus, such as RGB values, white balance, cross hair grid, and auto exposure. 4 Vertical and 4 horizontal cross hair grids available with 6 color selections.

**Product ID** | **Description**
--- | ---
26100-252 | Mighty Cam VGA Color Camera

**Mighty Cam HDMI Color Camera**
- Aven’s HD color camera allows you to connect the camera directly to a HD monitor with an HDMI input. A PC is not required for image processing, thus saving you precious space. In addition, a built-in USB Flash Drive allows you to save images. All features of this digital camera can be controlled via on screen menus, such as RGB values, white balance, cross hair grid, and auto exposure. 4 Vertical and 4 horizontal cross hair grids available with 6 color selections.

**Product ID** | **Description**
--- | ---
26100-253 | HDMI Color Camera

**Mighty Cam VGA Color Camera 720p**
- Aven’s color VGA camera allows connectivity directly to a PC monitor. A PC is not required for image processing thus saving you the cost of a PC and bench space. All features of the digital camera can be controlled via on screen menus such as RGB values, white balance, cross, hair, auto-exposure, etc.

**Product ID** | **Description**
--- | ---
26100-254 | HDMI Color Camera
Microscope & Video Accessories
Imaging & Measurement Software

Measurement Camera Software for 26100-254

Measure and Analyze with Ease

The advanced measurement software is able to detect gray scale gradations and can measure a line, circle, radius, angle and parallel lines in millimeters or inches. Users can save five sets of measurement data on the USB Flash Drive, which simplifies comparisons and record-keeping. White balance and exposure can be automatic or one-click mouse functions.

Capture High Quality Images

Create enhanced still photos with or without measurement lines and save for further analysis.

Camera Settings

The software also allows you to edit all camera settings. Options include luminance, contrast, RGB values, auto exposure and auto white balance.

Easy Measurement Calibration

Calibrating the software for measurement is as simple as placing a ruler or other scale under the lens, selecting the size, e.g. 16mm and pressing the Calibrate button.

Optional Capture Settings

Software allows you to choose which image format to save files in (JPG or BMP) and also measurements you added to the image.

Edge Detection Tool

Software has an Intelligent Edge detection tool built in for finding boundaries of objects within images. It works by detecting the discontinuities in brightness.

Magnifying Window

Software digitally magnifies the area around the mouse pointer by 4x, 9x and 16x (selectable). This is particularly helpful when you need to see minute features.

Grid Feature

Locate and compare with ease using multiple grid views.

Measurement Tools

- Set the image pixels to real units eg. mm or inches.
- Record and save multiple calibration settings.
- Measure the distances between different points, or edges.

Additional Features

- Photo Browser displays images saved on USB Flash Drive and can be expanded to full screen for review.
- Measurement results are displayed in the side panel and can be exported and saved on the USB Flash Drive.
- Multiple measurement tools such as lines, parallel lines, circles and polygons (plotted with up to 10 points) are available in the Manual tab.

Additional Features

- Fill Mode Tool determines the image size. Fit-to-Fill the entire viewing area, Zoomed in, or Preserve the Original aspect ratio.
- Location Button provides a cursor for the X,Y,Z-axis coordinates. Moving the Cursor with the mouse updates the coordinates.
- And many many more …

* Note: Aven recommends that you use a detented lens system or a microscope with click stops for accurate repeatable measurements.

Measure, Annotate and Analyze with Ease

ezMeasure® software allows you to measure, annotate, and analyze your images with just a few mouse clicks. Create written reports that include the raw data, plus the images involved. With ezMeasure®, you can view realtime live images or screenshots from your saved folder which can be reviewed, replayed, and analyzed. Recent projects are easily accessible with the thumbnail menu.

Capture High Quality Images

Create enhanced still photos or record a live video stream for playback.

Simultaneous Live Views

Use two cameras on same work station for side by side live views.

Customize the Layout

Set the layout to your personal preferences and save your unique settings for future use.

Text Button

Allows annotations directly onto the screen. The user has the ability to adjust the size and the appearance of the text.

AVEN, INC. | 4330 VARSITY DRIVE | ANN ARBOR, MI 48108
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Microscope & Video Accessories
Fiber Optic Illumination

ProLux LED Fiber Optic Illuminator
- Accepts virtually any Light Guide with Quick Change Adapters
- Advanced Heat Pipe Technology using Metal Core PCMs
- Higher Brightness, Better Color, Longer Life, Half the Energy Consumption and Reduced Ownership Costs
- Linear Light Intensity Control with Continuous Dimming
- Maintenance Free LEDs have a minimum lifetime of 25,000 Hours

Fiber Optic Area Backlight - 4 x 4 in
- Ideal for high contrast silhouette images
- Highly diffuse even light distribution
- Sleek, slim design provides versatility for mounting in tight space

Dual Pipe Light Guide
- High quality fiber
- Large bundle assures maximum light transmission
- Obedient "stay-up" sheathing for accurate positioning
- Focusable lens on each pipe for individual light control

Fiber Optic Area Backlight - 4 x 4 in
- Ideal for high contrast silhouette images
- Highly diffuse even light distribution
- Sleek, slim design provides versatility for mounting in tight space

Microscope & Video Accessories
LED Illumination

Diffuse Axial LED Illuminator
- Evenly illuminates flat and shiny surfaces
- Pulsed, oscillated, or embossed features
- Creates contrast between specular, diffuse and/or absorptive surfaces
- Diminishes visibility of clear overcoats or coverings
- Ideal for electronic component inspection

Focusable Lens on each pipe for

LED Illumination
- Linear Light Intensity Control with
- Higher Brightness, Better Color, Longer Life, Half the Energy Consumption and Reduced Ownership Costs
- Advanced Heat Pipe Technology using Metal Core PCMs
- Quick Change Adapters

Sleek, slim design provides versatility for

Highly diffuse even light distribution

Illumination for Microscopy & Video Inspection
Aven offers a variety of lighting options. Eco-friendly white LED rings are designed to be used in microscopes and video applications. Aven optics are typically associated with high intensity light. Additional options include a ring light with polarizer for shiny surfaces as well as diffuse axial LED illuminator for specular and shiny surfaces.

Visit www.aveninc.com

*Note: When used with articulating stand, single arm boom stand, or double arm boom stand, an arbor (26000B-521) is required for mounting.

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## Microscope & Video Accessories

### Stands & Focus Mounts

**Single Arm Boom Stand w/ Heavy Metal Base**
- Base dimensions: 285 x 260 x 18mm
- Vertical post length: 384mm (15.12”)
- Heavy base provides excellent stability, allows positioning of microscopes over large area
- Posts are highly polished for smooth operation

**Double Arm Boom Stand w/ Heavy Duty Clamp**
- Vertical post length: 384mm (15.12”)
- Heavy duty C Clamp provides stability and saves bench space
- Allows positioning of microscopes over large area

**Double Arm Boom Stand w/ Heavy Metal Base**
- Base dimensions: 285 x 260 x 18mm
- Vertical post length: 384mm (15.12”)
- Heavy base provides excellent stability, allows positioning of microscopes over object being viewed

**Pole Stand with Focus Mount**
- Base dimensions: 210 x 278 x 25mm (8.26” x 10.94” x 0.98”)
- Vertical post length: 255mm (10”)
- Includes rack & pinion focus mount with fine focus adjustment
- Top & Bottom LED illumination with dimmer control
- Frosted, Black & White Stage Plates
- Safety clamp included

**Track Stand with Focus Mount with LED Illumination Top and Bottom**
- Base dimensions: 210 x 278 x 40mm (8.26” x 10.94” x 1.53”)
- Tracking range: 245mm (9.65”)
- Light weight compact track stand
- Comes with rack & pinion focus mount with fine focus adjustment
- Top & Bottom LED illumination with dimmer control
- Frosted, Black & White Stage Plates

**Pole Stand with Focus Mount with LED Illumination Top and Bottom**
- Base dimensions: 210 x 278 x 40mm (8.26” x 10.94” x 1.53”)
- Vertical post length: 255mm (10”)
- Includes rack & pinion focus mount with fine focus adjustment
- Top & Bottom LED illumination with dimmer control
- Frosted, Black & White Stage Plates
- Safety clamp included

### Microscope & Video Accessories

**Thin Film Stand**
- Dimensions: 385mm x 265mm x 100mm
- Light weight and compact design
- Allows positioning of microscopes over large area
- Vertical post length: 380mm (15”)
- Includes rack & pinion focus mount with fine focus adjustment
- Top & Bottom LED illumination with dimmer control
- Frosted, Black & White Stage Plates

**Heavy Duty Post Stand**
- Base dimensions: 270 x 330 x 12mm (10.6” x 13” x 0.5”)
- Aluminum powder coated base
- 10 tapped holes for mounting x-y stages
- UNC bolt and safety clamp included

### Rod Stand with Focus Mounts

**4 Arm Focus Mount**
- Can be moved out of way when not in use
- All metal construction

**Variable Articulating Arm Stand**
- Allows great flexibility in positioning microscopes
- Can be moved out of way when not in use
- All metal construction

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>26800B-519</td>
<td>Single Arm Boom Stand w/ Heavy Metal Base</td>
</tr>
<tr>
<td>26800B-525</td>
<td>Double Arm Boom Stand w/ Heavy Duty Clamp</td>
</tr>
<tr>
<td>26800B-534</td>
<td>Double Arm Boom Stand w/ Heavy Metal Base</td>
</tr>
<tr>
<td>26800B-509</td>
<td>Pole Stand with Focus Mount</td>
</tr>
<tr>
<td>26800B-510</td>
<td>Track Stand with Focus Mount with LED Illumination Top and Bottom</td>
</tr>
<tr>
<td>26800B-508</td>
<td>Pole Stand with Focus Mount with LED Illumination Top and Bottom</td>
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<tr>
<td>26800B-511</td>
<td>Pole Stand with Focus Mount</td>
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<tr>
<td>26800B-507</td>
<td>Heavy Duty Post Stand</td>
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<tr>
<td>26800B-512</td>
<td>4 Arm Focus Mount</td>
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<tr>
<td>26800B-505</td>
<td>Standard Articulating Arm Stand</td>
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<tr>
<td>26800B-500</td>
<td>Variable Articulating Arm Stand</td>
</tr>
</tbody>
</table>

**Note:** Single & Double Arm Boom Stands require either a Focus Mount (26800B-517) with tilttable arbor (26800B-521) or E-Arm Focus Mount (26800B-518).
Microscope & Video Accessories

Gliding Stages & Eyepieces

Gliding Stage w/Micrometer Adjustments
- Enables attachment of micrometer for accurate measurement
- Stage measures 114 x 114mm
- 25 x 25mm travel

Gliding Stage-Small
- Ideal for observing parts that need to be moved while under the microscope
- Provides smooth movement in x and y axes
- Measures 140 x 144mm
- 94 x 114mm travel

Gliding Stage w/95mm Ring Mount
- Smooth motion for precise specimen placement
- Anodized black metal and glass components
- Glass top with interior Y and exterior X unit measurements
- Coarse dial system for easy and accurate operation
- Useful for dissection and circuit board inspection

Gliding Stage-Large
- Precision-machined ball-cut gearing
- Fine, controlled movement along the entire 100x200mm travel in the X-Y axes
- Black anodized finish
- Ideal for smooth and controlled movement of parts underneath a microscope

Microscope Eyepiece 10x with 10:100mm Scale
- 10x magnification power
- 10:100mm scale reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 5:100mm Scale
- 10x magnification power
- 5:100mm scale reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 20:200 0.5mm Squares
- 10x magnification power
- 20:200, 0.5mm squares reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 5:100mm Scale Reticle
- 10x magnification power
- 5:100mm scale reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 20:200 0.5mm Squares Reticle
- 10x magnification power
- 20:200, 0.5mm squares reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 20:200 1mm Squares
- 10x magnification power
- 20:200, 1mm squares reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 10:100mm Scale Cross Hair
- 10x magnification power
- 10:100mm scale cross hair reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 18:180mm Scale Cross Hair
- 10x magnification power
- 18:180mm scale cross hair reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Eyepieces & Auxiliary Lenses

DSW-10X Eyepieces - DSZ-44 and NSW series bodies
- Wide Field 10x Eyepieces
- For DSZ-44 and NSW Series Microscopes
- Lens FN 23

DSW-15X Eyepieces - DSZ and NSW series bodies
- Wide Field 15x Eyepieces
- For DSZ-44, DSZ-70 and NSW Microscopes
- Lens FN 15

DSW-20X Eyepieces - DSZ and NSW series bodies
- Wide Field 20x Eyepieces
- For DSZ-44, DSZ-70 and NSW Microscopes
- Lens FN 11.4

DSW-20X Eyepieces - DSZ-70 series bodies
- Wide Field 20x Eyepieces
- For DSZ-70 Microscopes
- Lens FN 20

DHW-10X Eyepieces - SPZ series bodies
- Wide Field 10x Eyepieces
- For SPZ Series Microscopes
- Lens FN 23

DHW-15X Eyepieces - SPZ series bodies
- Wide Field 15x Eyepieces
- For SPZ Series Microscopes
- Lens FN 15

DHW-20X Eyepieces - SPZ series bodies
- Wide Field 20x Eyepieces
- For SPZ Series Microscopes
- Lens FN 11.4

Rubber Eye Guards
- Adds comfort
- Manufactured from stretchable rubber material
- Eliminates stray light
- Protects eyepieces

Auxiliary Lens 0.5x
- Reduces magnification of DSZ, NSW, SPZ and SPZ series microscopes
- Increases working distance and field of view
- 0.5x lens cannot be used with SPZ series bodies with stand P, FM, PLED and Stand T and NSW series bodies with Stand T

Auxiliary Lens 0.75x
- Reduces magnification of DSZ, NSW, SPZ and SPZ series microscopes
- Increases working distance and field of view

Auxiliary Lens 1.0x
- Adds comfort
- Increases magnification of DSZ, NSW, SPZ and SPZ series microscopes
- Reduces working distance and field of view

Auxiliary Lens 1.6x
- Increases magnification of DSZ, NSW, SPZ and SPZ series microscopes
- Reduces working distance and field of view

Auxiliary Lens 2x
- Increases magnification of DSZ, NSW, SPZ and SPZ series microscopes
- Reduces working distance and field of view
Swing Out Inspection Loupe 10x
- Triplet lens system corrected for spherical and chromatic aberrations
- Produces a sharp and distortion free image
- 10x magnification

Magniloupe w/Cushion
- Lightweight glass lens magnifier
- Soft rubber cushion provides comfort during use
- Powerful magnification
- Excellent for close inspection of small parts
- Ideal for use by jewelers, photographers, watchmakers, printers, and quality control inspectors

Swing Out Inspection Loupe 20x
- Distortion free, three piece, bonded lens
- Made from optical glass
- 20x eye loupe with 1/2” working distance
- Chrome finish loupe easily folds up to protect lens
- Includes leather carrying case

Eye Loupe 10x
- Lightweight & sturdy glass lens magnifier
- Powerful 10x magnification
- Excellent for close inspection of small parts
- Ideal for use by jewelers, photographers, watchmakers, printers, and quality control inspectors

Eye Loupe 10x with LED Light
- Lightweight glass lens magnifier
- Powerful 10x magnification
- Excellent for close inspection of small parts
- Ideal for use by jewelers, photographers, watchmakers, printers, and quality control inspectors

Magnifiers
Inspection Loupes, Magnifiers & Magniloupes

Magnifiers
Eye Loupes & Pocket Microscopes

Pocket Microscope 25x w/ LED Light
- Perfect “pen-type” microscope with 25x magnification
- Includes pocket clip and a bright LED light
- Beveled opening to gather and focus light
- Provides distortion free inverted image
- Ideal for inspection in electronics, medical, printing, and jewelry industries

Pocket Microscope 50x w/ LED Light
- Perfect “pen-type” microscope with 50x magnification
- Includes pocket clip and a bright LED light
- Beveled opening to gather and focus light
- Provides distortion free inverted image
- Ideal for inspection in electronics, medical, printing, and jewelry industries

Pocket Microscope 40x w/ illumination
- Perfect carry-with microscope with magnification of 40x
- Eyepiece has scale with 0.05mm graduation and a measurement range of 4mm
- Operates on three AA batteries (not included)
- Useful for engineers, tool makers and quality control inspectors

Pocket Microscope 60-100x w/ LED illumination
- Perfect carry-with microscope with magnification of 60-100x
- Focus wheel allows you to quickly focus onto the object being viewed
- Operates on three LR1130 Button Cell batteries (not included)
- Useful for engineers, tool makers and quality control inspectors

Pocket Microscope 40x w/ illumination
- Perfect carry-with microscope with magnification of 40x
- Eyepiece has scale with 0.05mm graduation and a measurement range of 4mm
- Operates on three AA batteries (not included)
- Useful for engineers, tool makers and quality control inspectors

Pocket Microscope 60-100x w/ LED illumination
- Perfect carry-with microscope with magnification of 60-100x
- Focus wheel allows you to quickly focus onto the object being viewed
- Operates on three LR1130 Button Cell batteries (not included)
- Useful for engineers, tool makers and quality control inspectors

Pocket Microscope Scale
Etched into the eyepiece with graduations of 0.05mm
26800C-552 & 26800C-553

Magnifiers
Inspection Loupes, Magnifiers & Magniloupes

Pocket Microscope Scale
Etched into the eyepiece with graduations of 0.05mm
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Pocket Microscope Scale
Etched into the eyepiece with graduations of 0.05mm
26800C-552 & 26800C-553
OptiVisor Headband Magnifiers
- Optical glass prismatic lenses ground and polished to precision optical standards
- Adjustable pivots allow the visor to be tilted out of the way when not needed and at your fingertips when you need magnification
- Adjusts to fit all head sizes
- High impact visor provides a tough, durable, always-new appearance
- Padded orthopedic felt adds to comfort

Replacement Lenses
- 1.5x - 3.5x Replacement Lenses
- Optical glass prismatic lenses ground and polished to precision optical standards
- Replacement Lens for OptiVisor Headband Magnifier

OptiVue Headband Magnifier
- Provides hands-free magnification
- Visor lifts up for normal viewing
- Includes 2.5x crystal clear acrylic lens
- Adjustable headband fits any size

Auxiliary Lens - 2.5x
- Attaches to the front of OptiVisor headband magnifier
- Mounts on one side of the lens plate to provide an additional 2.1/2x magnification
- Pivots out of the way when not needed

OptiVue Headband Magnifier - 2.5x
- Provides hands-free magnification
- Visor lifts up for normal viewing
- Includes 2.5x crystal clear acrylic lens
- Adjustable headband fits any size

Register online to receive updates on the newest products and for the latest specials from Aven.
**Magnifying Lamps**

**ProVue Touch White & UV LED Magnifying Lamp**
- Dual lighting provides 54 powerful energy saving white SMD LED lights and 48 SMD UV LED lights (400nm)
- UV lighting ideal for forensic analysis, counterfeit inspection and detection of fluorescences in adhesives, laminates and conformal coatings
- SMD technology ensures reliability and long life
- Large 7” crystal clear 1.75x (3 diopter) glass lens with protective cover
- Touch sensitive 3-stage on-off switch for controlling light intensity
- Rugged ABS plastic housing attached to a 35” industrial grade spring balance arm for precise positioning
- Lens can be easily removed and replaced when necessary
- Built-in metal grips for quick and easy positioning
- Heavy-duty metal mounting clamp with 63.5mm (2.5”) opening
- LED lights are rated for over 20,000 hours of use
- Unit operates at 115 VAC

**Mighty Vue Magnifying Lamp-Led**
- Large 7” x 6” lens, 3-diopter
- Durable ESD safe mar-resistant plastic housing
- 36” spring balanced arm stays put in any position
- Heavy-duty ESD safe metal mounting clamp with 63.5mm (2.5”) opening
- Color temperature ranges from 3500K-6500K
- Feature 60 high powered energy efficient SMD LEDs lights (30 per color temperature) that provide shadow free illumination
- LED lights are rated for over 20,000 hours of use
- Unit operates at 115 VAC

**Mighty Vue Magnifying Lamp LED with Rolling Stand**
- Same features as our 26505-LED except mounted on our heavy duty floor stand with casters

**Mighty Vue Pro Magnifying Lamp**
- Large 7” x 6” lens
- Durable ESD safe mar-resistant plastic housing
- 36” spring balanced arm stays put in any position
- Heavy-duty ESD safe metal mounting clamp with 63.5mm (2.5”) opening
- Color temperature ranges from 3500K-6500K
- Feature 60 high powered energy efficient SMD LEDs lights (30 per color temperature) that provide shadow free illumination
- LED lights are rated for over 20,000 hours of use
- Features Brightness Adjustment (max: 11000lm)
- Unit operates at 115 VAC

**Replacement Clamp - 26505-SV**
- Replacement Heavy-duty metal mounting clamp with 63.5mm (2.5”) opening
- Mounts easily to desk or table top
- Fits Mighty Vue 26505-SV and 26505-LED magnifying lamps

**Replacement Clamp - 26505-ESD**
- Replacement Heavy-duty metal mounting clamp with 63.5mm (2.5”) opening
- Mounts easily to desk or table top
- Fits Mighty Vue 26505-ESD and 26505-ESD-SD magnifying lamps

**Replacement Bulb**
- Energy efficient universal standard fluorescent light bulbs
- 9 Watt Replacement Bulb

**Replacement Bulb - 26505-ESD**
- Replacement Bulb designed for Mighty Vue Magnifiers
- Energy efficient universal standard fluorescent light

Register online to receive updates on the newest products and for the latest specials from Aven.
Work Lights

Machine Tool LED Task Lamps & Accessories

- **Sirrus LED Lamp w/ Aluminum Head, 500mm Flex Arm & Mounting Clamp**
  - 500mm flexible arm stays set in any position to provide direct light where needed
  - High intensity energy saving LEDs
  - Cool operating temperature
  - Exceptionally long LED element life (minimum 20,000 hours)
  - Ideal for assembly, workshop or office applications

- **Sirrus Task Light LED w/ Swivel Head, 500mm Flex Arm & Mounting Clamp**
  - 500mm flexible arm stays set in any position to provide direct light where needed
  - High intensity energy saving LEDs
  - Cool operating temperature
  - Exceptionally long LED element life (minimum 20,000 hours)
  - Ideal for assembly, workshop or office applications

- **Sirrus Task Light LED w/ Magnetic Base & 18" Flexible Arm**
  - Durable and compact lamp shade with black exterior
  - 10 high intensity energy saving LEDs
  - Cool operating temperature
  - Exceptionally long LED element life (minimum 20,000 hours)
  - Flexible Arm for precise positioning

- **Sirrus LED Lamp w/ Aluminum Head, 500mm Flex Arm & Mounting Clamp**
  - 500mm flexible arm stays set in any position to provide direct light where needed
  - High intensity energy saving LEDs
  - Cool operating temperature
  - Exceptionally long LED element life (minimum 20,000 hours)
  - Ideal for assembly, workshop or office applications

Hand Tools

Alignment Tools & Screwdrivers

- **Ceramic Alignment Screwdriver - 7-Piece Set**
  - Ceramic Blades made from Zirconia ceramic
  - Outlasts metal or plastic tip tools
  - No eddy current loss in high frequency

- **Ceramic Alignment Screwdriver - 6-Piece Set**
  - Ceramic Blades made from Zirconia ceramic
  - Outlasts metal or plastic tip tools
  - No eddy current loss in high frequency

- **Precision Screwdriver - 6-Piece Set**
  - Chrome Vanadium steel with satin finish and black tips
  - Heat treated high grade stainless steel blades with blackened tips

- **8 Piece Reversible Screwdriver Set**
  - Neo Magnity screwdriver handle features rotating cap
  - Made from environmentally friendly and recyclable materials
  - Heat treated high grade alloy steel blades with blackened tips

- **Precision Screwdriver - 8-Piece Set**
  - Ergonomically designed handle with split head cap
  - Two component handle provides soft touch and non-slip surface
  - Heat treated high grade stainless steel blades with blackened tips

- **9-Piece Anti-Static Alignment Tool Kit**
  - Anti-Static, non-magnetic, non-inductive heat resistant ceramic tips

- **Precision Screwdriver - 7-Piece Set**
  - Chrome Vanadium steel with satin finish and black tips

Magnetic Base

- **Magnetic Base for Sirrus LED task lights 26520, 26527, 26528**
  - Four screw holes provided to allow you to screw the task light to the base
  - Allows for secure yet mobile placement on magnetic surfaces such as metal benches or cabinets

- **Machine Tool LED Task Light Compact with 18" Flexible Arm**
  - Durable and compact lamp shade with white exterior
  - 10 high intensity energy saving LEDs
  - Cool operating temperature
  - Exceptionally long LED element life (minimum 20,000 hours)
  - Flexible Arm for precise positioning

- **Machine Tool LED Task Light Domet with 23" Flexible Arm**
  - Durable and compact lamp shade with black exterior
  - 10 high intensity energy saving LEDs
  - Cool operating temperature
  - Exceptionally long LED element life (minimum 20,000 hours)
  - Flexible Arm for precise positioning

AVEN, INC. | 4330 VARSITY DRIVE | ANN ARBOR, MI 48108
Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
Hand Tools

Stainless Steel Wrenches, Cutters & Pliers

Adjustable Wrench - Stainless Steel

- Manufactured from 304 series stainless steel
- Mirror polished to provide excellent rust resistance
- Handle hole for tethering, hanging or storage
- Can be autoclaved to temperatures up to 250 degrees Fahrenheit

Adjustable Wrench - Stainless Steel w/ PVC Grip

- Manufactured from 304 series stainless steel
- Mirror polished to provide excellent rust resistance
- Cushion-grip handle
- Handle hole for tethering, hanging or storage

Combination Wrench - Stainless Steel

- Manufactured from 304 series stainless steel
- Can be autoclaved to temperatures up to 250 degrees Fahrenheit
- Rust resistant, can help eliminate risk of ferrous contamination

Combination Wrench - Stainless Steel - 6-Piece Set

- Made from 304 series stainless steel
- Can be autoclaved to temperatures up to 250 degrees Fahrenheit
- Rust resistant, can help eliminate risk of ferrous contamination
- Includes handy roll up plastic pouch

Diagonal Cutter - Stainless Steel 6"

- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent rust resistance
- Oval head designed for greater access in confined spaces
- Beveled cutting edge is hardened for long lasting performance
- Can be autoclaved to temperatures up to 250 degrees Fahrenheit

Diagonal Cutter w/Comfort Grip Handles 6"

- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent rust resistance
- Oval head designed for greater access in confined spaces
- Beveled cutting edge is hardened for long lasting performance
- Ergonomically designed grips for extra comfort

Flat Nose Parallel Action Pliers 6.75"

- Serrated jaws with V-Stop for holding wire
- Grip remains consistently parallel along length of jaw when open or closed
- Compound lever action with no spring
- Built-in wire cutter cuts soft wire up to 4mm (0.16"

Groove Joint Pliers Stainless Steel 9.5"

- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent rust resistance
- Slip resistant tongue and groove design used for gripping and turning
- Serrated jaws with four adjustable positions
- Can be autoclaved to temperatures up to 250 degrees Fahrenheit

Hand Tools

Stainless Steel Pliers

Combination Pliers Stainless Steel 8"

- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent rust resistance
- Tapered head design allows for greater access in confined spaces
- Designed for gripping and turning round objects such as pipes, rods and pens
- Serrated jaws with machined gripping teeth and wire cutter

Combination Pliers w/Plastic Grips 8"

- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent rust resistance
- Tapered head design allows for greater access in confined spaces
- Designed for gripping and turning round objects such as pipes, rods and pens
- Serrated jaws with machined gripping teeth and wire cutter

Locking Pliers Stainless Steel 7"

- Body and springs made from 304 non-magnetic stainless steel
- Jaws are made from 420-series stainless steel
- Fully polished to provide excellent rust resistance
- Smooth gliding locking mechanism enables easy one-handed operation
- Trigger release handles and easy turning pressure adjusting screw

Locking Pliers Stainless Steel 9"

- Body and springs made from 304 non-magnetic stainless steel
- Jaws are made from 420-series stainless steel
- Fully polished to provide excellent rust resistance
- Smooth gliding locking mechanism enables easy one-handed operation

Locking Pliers, Long Nose, Stainless Steel 6"

- Fully polished stainless steel provides excellent corrosion resistance
- Smooth gliding locking mechanism enables easy one-handed operation
- Long thin nose is ideal for accessing tight spaces
- Trigger release handles and easy turning pressure adjusting screw
**Hand Tools**

**Crimping Tools & Scissors**

- **4-1/2" Slim Blade Straight Scissor**
  - Fully polished stainless steel provides excellent corrosion resistance
  - Precision scissor for cutting fine wire and general use
  - 1-1/4" durable stainless steel blade

- **7" All Purpose Standard Scissor**
  - Fully polished stainless steel provides excellent corrosion resistance
  - Fine beaks for precise and delicate work
  - 1-3/4" durable stainless steel blade

- **8" All Purpose Standard Scissor**
  - Fully polished stainless steel provides excellent corrosion resistance
  - 3-3/4" durable stainless steel blade

- **5" Electrician Scissor**
  - Fully polished stainless steel provides excellent corrosion resistance
  -Sharper than cable strippers
  - Tight bends allow fine trim of wires
  - 2-1/2" durable stainless steel blade

**Probe Double Ended Scissor**

- **Probe Double Ended Scissor - 10"**
  - Fully polished stainless steel
  - Long nose for tight spaces
  - 1-1/2" durable stainless steel blade

**Probe Straight Needle Point**

- **Made from 400 series stainless steel**
  - Sharp tip for precision work around delicate circuits and components
  - Eight sided handle to ensure grip and prevent rolling

**Probe Bent Needle Point**

- **Made from 400 series stainless steel**
  - Sharp tip for precision work around delicate circuits and components
  - Eight sided handle to ensure grip and prevent rolling

**Probe Curved Needle Point**

- **Made from 400 series stainless steel**
  - Sharp tip for precision work around delicate circuits and components
  - Eight sided handle to ensure grip and prevent rolling

**Probe Double Sided Scaper Bent Tips**

- **Made from 400 series stainless steel**
  - Sharp tip for precision work around delicate circuits and components

**Probe Double Sided Scaper Angled/Curved**

- **Made from 400 series stainless steel**
  - Sharp tip for precision work around delicate circuits and components

**Stainless Steel Probe 4-piece Set**

- **Made from 400 series stainless steel**
  - Sharp tip for precision work around delicate circuits and components
  - Set of four: Straight, Bent, Curved and Angled Models

**Alligator Clamp**

- **Made from 400 series stainless steel**
  - Serrated jaws for secure grip
  - Angled to provide maximum view

**Hemostats & Probes**

- **Probe Bent Needle Point with Suture Needle**
  - Made from 400 series stainless steel
  - Serrated jaws hold objects firmly without cutting them
  - Designed for intricate work in tight spaces
  - Ratchet lock in handle allows varying gripping pressure

**Hand Tools**

- **Probe Straight Needle Point**
  - Made from 400 series stainless steel
  - Sharp tip for precision work around delicate circuits and components
  - Eight sided handle to ensure grip and prevent rolling

- **Probe Bent Needle Point**
  - Made from 400 series stainless steel
  - Sharp tip for precision work around delicate circuits and components
  - Eight sided handle to ensure grip and prevent rolling

- **Probe Curved Needle Point**
  - Made from 400 series stainless steel
  - Sharp tip for precision work around delicate circuits and components
  - Eight sided handle to ensure grip and prevent rolling

- **Probe Double Sided Scaper Bent Tips**
  - Made from 400 series stainless steel
  - Sharp tip for precision work around delicate circuits and components

- **Probe Double Sided Scaper Angled/Curved**
  - Made from 400 series stainless steel
  - Sharp tip for precision work around delicate circuits and components

- **Stainless Steel Probe 4-piece Set**
  - Made from 400 series stainless steel
  - Sharp tip for precision work around delicate circuits and components
  - Set of four: Straight, Bent, Curved and Angled Models

**Alligator Clamp**

- **Made from 400 series stainless steel**
  - Serrated jaws for secure grip
  - Angled to provide maximum view

**Hemostats - Straight**

- **Made from 400 series stainless steel**
  - Serrated jaws hold objects firmly without cutting them
  - Designed for intricate work in tight spaces
  - Ratchet lock in handle allows varying gripping pressure

**Hemostats - Curved**

- **Made from 400 series stainless steel**
  - Serrated jaws hold objects firmly without cutting them
  - Designed for intricate work in tight spaces
  - Ratchet lock in handle allows varying gripping pressure

**Stainless Steel Probe 4-piece Set**

- **Made from 400 series stainless steel**
  - Sharp tip for precision work around delicate circuits and components
  - Set of four: Straight, Bent, Curved and Angled Models

**Alligator Clamp**

- **Made from 400 series stainless steel**
  - Serrated jaws for secure grip
  - Angled to provide maximum view

**Hemostats - Straight**

- **Made from 400 series stainless steel**
  - Serrated jaws hold objects firmly without cutting them
  - Designed for intricate work in tight spaces
  - Ratchet lock in handle allows varying gripping pressure

**Hemostats - Curved**

- **Made from 400 series stainless steel**
  - Serrated jaws hold objects firmly without cutting them
  - Designed for intricate work in tight spaces
  - Ratchet lock in handle allows varying gripping pressure

**Register online to receive updates on the newest products and for the latest specials from Aven.**
**Hand Tools**

**Precision Knives & Blades**

**Technik K-18 Grip-On Non-Roll Soft Handle Knife**
- 5-inch comfortable soft grip handle
- Four-jaw machined aluminum chuck for secure blade positioning
- Includes a super sharp #11 blade and clear plastic safety cap
- Ideal for cutting or trimming plastic, wood, paper, cloth and film

**Technik K-10 Plastic Snap Blade Knife**
- 13-Point snap off blade in a strong plastic track
- Plastic auto-lock handle
- Ideal for home, office, or industrial use cutting papers, plastic, wood and other items
- Fits replacement blades 44256, K-10 Replacement Blade (100/pk)

**Technik K-5 Heavy Duty Knife**
- 7-point deluxe snap off blade in a strong plastic track
- Plastic auto-lock handle
- Ideal for home, office, or industrial use cutting papers, plastic, wood and other items
- Fits replacement blades 44254, K-13 Replacement Blade (100/pk)

**Technik K-1 Precision Light Duty Knife**
- 4-3/4 inch aluminum handle
- 4-point pivot for easy blade release
- Includes a super sharp #11 blade and a high impact safety cap
- Ideal for precision cutting, trimming and stripping of papers, plastic, wood, cloth and film
- Fits replacement blades #10, 11, 16, 17

**Technik K-2 Medium Duty Knife**
- 4-3/4 inch aluminum handle
- 4-point pivot for easy blade release
- Includes a super sharp #22 blade and a high impact safety cap
- Ideal for precision cutting, trimming and stripping of papers, plastic, wood, cloth and film
- Fits replacement blades #2, 18, 19, 22, 23, 24, 25, 26, 27, 28

**Technik K-40 Pocket Clip Light Duty Utility Knife**
- Multi-purpose precision knife is ideal for cutting and trimming
- Unique twist lock pocket clip safety cap
- Machined aluminum 4-jaw chuck for tight secure blade housing
- Comfortable ridged tapered plastic handle
- Fits replacement blades #10, 11, 16, 17
- Super sharp #11 blade

**Technik K-5 Heavy Duty Knife**
- 7/16-inch aluminum adapter
- 4-point pivot for easy blade release
- Includes a #19 sharp angled blade and a snug fitting plastic safety cap
- Ideal for precision cutting, trimming and stripping paper, plastic, and wood
- Fits replacement blades #2, 18, 19, 22, 23, 24, 25, 26, 27, 28

**Technik Deluxe Knife Set**
- Contains K-1, K-2, K-5 handle knives
- 13 assorted blades
- Includes a Teflon covered magnetic strip to help in holding the blades securely
- Organized in convenient plastic tray

**Scalpel Blades**
- Made from surgical quality non-sterile .015” thick stainless steel
- Very sharp, precise and durable blade generally used for precision cutting in micro-circuitry, photography, art, etc.
- Can be used with a plastic or stainless steel handle
- Contains two pieces per tube

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Blade Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>44035</td>
<td>Scalpel Blade #13</td>
<td>Curved cutting edge</td>
</tr>
<tr>
<td>44036</td>
<td>Scalpel Blade #16</td>
<td>Curved cutting edge</td>
</tr>
<tr>
<td>44037</td>
<td>Scalpel Blade #23</td>
<td>Rounded &quot;leaf shaped&quot; cutting edge</td>
</tr>
</tbody>
</table>

**Scalpel Blade Handle Plastic #3**
- #3 size handle is designed to fit blade styles #10, 11, 12, 13
- Makes loading blades easy
- Perfectly balanced and precision machined plastic
- Fluted finger grips

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Blade Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>44003</td>
<td>Scalpel Blade Handle Plastic #3</td>
<td>#13</td>
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</tbody>
</table>

**Scalpel Blade Handle Stainless Steel #3**
- #3 size handle is designed to fit blade styles #10, 11, 12, 13
- Makes loading blades easy
- Perfectly balanced and precision machined stainless steel
- Fluted finger grips

<table>
<thead>
<tr>
<th>Product ID</th>
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<tbody>
<tr>
<td>44002</td>
<td>Scalpel Blade Handle Stainless Steel #3</td>
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</tbody>
</table>

**Scalpel Blade Handle Plastic #4**
- #4 size handle is specifically designed to fit #22 blade style
- Makes loading blades easy
- Perfectly balanced and precision machined plastic
- Fluted finger grips

<table>
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</table>

**Scalpel Blade Handle Stainless Steel #4**
- #4 size handle is specifically designed to fit #22 blade style
- Makes loading blades easy
- Perfectly balanced and precision machined stainless steel
- Fluted finger grips

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<td>Scalpel Blade Handle Stainless Steel #4</td>
<td>#22</td>
</tr>
</tbody>
</table>

**K-8, K-10 & K-13 Replacement Blades**
- Snap-off replacement blades
- Replacement blade for Technik K-8, Technik K-10, and Technik K-13 knives
- Ideal for home, office, or industrial use cutting papers, plastic, wood and other items

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<tr>
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<td>44218</td>
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<tr>
<td>44216</td>
<td>No. 18 Blade (100/pk)</td>
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<td>No. 18 Blade (5/pk)</td>
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<td>No. 17 Blade (100/pk)</td>
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<td>No. 17 Blade (5/pk)</td>
<td>#22</td>
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<tr>
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<td>44206</td>
<td>No. 13 Stainless Steel Blade</td>
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<td>44205</td>
<td>No. 13 Stainless Steel Blade</td>
<td>#22</td>
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<td>44204</td>
<td>No. 12 Stainless Steel Blade</td>
<td>#22</td>
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</table>

**Scalpel Blade Handle Plastic #3**
- #3 size handle is designed to fit blade styles #10, 11, 12, 13
- Makes loading blades easy
- Perfectly balanced and precision machined plastic
- Fluted finger grips

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</table>

**Scalpel Blade Handle Stainless Steel #3**
- #3 size handle is designed to fit blade styles #10, 11, 12, 13
- Makes loading blades easy
- Perfectly balanced and precision machined stainless steel
- Fluted finger grips

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Blade Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>44002</td>
<td>Scalpel Blade Handle Stainless Steel #3</td>
<td>#13</td>
</tr>
</tbody>
</table>

**Scalpel Blade Handle Plastic #4**
- #4 size handle is specifically designed to fit #22 blade style
- Makes loading blades easy
- Perfectly balanced and precision machined plastic
- Fluted finger grips

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Blade Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>44001</td>
<td>Scalpel Blade Handle Plastic #4</td>
<td>#22</td>
</tr>
</tbody>
</table>

**Scalpel Blade Handle Stainless Steel #4**
- #4 size handle is specifically designed to fit #22 blade style
- Makes loading blades easy
- Perfectly balanced and precision machined stainless steel
- Fluted finger grips

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Blade Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>44000</td>
<td>Scalpel Blade Handle Stainless Steel #4</td>
<td>#22</td>
</tr>
</tbody>
</table>

**Technik K-8 Flat Handle Light Duty Knife**
- Sleek long handle design with a sharp utility blade
- Both ends of the blade can be used for cutting
- Blade can be adjusted easily
- Ideal for cutting boxes, wood, leather and foam
- Fits replacement blades 44257, K-8 Replacement Blade (5/pk)

**Technik Deluxe Knife Set**
- Contains K-1, K-2, K-5 handle knives
- 13 assorted blades
- Includes a Teflon covered magnetic strip to help in holding the blades securely
- Securely organized in a deluxe wood box

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Blade Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>44011</td>
<td>Technik K-18 Grip-On Non-Soft Handle Knife</td>
<td>#11</td>
</tr>
<tr>
<td>44015</td>
<td>Technik K-8 Flat Handle Light Duty Knife</td>
<td>#10</td>
</tr>
<tr>
<td>44010</td>
<td>Technik K-10 Plastic Snap Blade Knife</td>
<td>#13</td>
</tr>
<tr>
<td>44016</td>
<td>Technik K-5 Heavy Duty Knife</td>
<td>#15</td>
</tr>
<tr>
<td>44013</td>
<td>Technik K-1 Precision Light Duty Knife</td>
<td>#18</td>
</tr>
<tr>
<td>44012</td>
<td>Technik K-2 Medium Duty Knife</td>
<td>#22</td>
</tr>
<tr>
<td>44014</td>
<td>Technik K-40 Pocket Clip Light Duty Utility Knife</td>
<td>#22</td>
</tr>
<tr>
<td>44011</td>
<td>Technik K-5 Heavy Duty Knife</td>
<td>#22</td>
</tr>
<tr>
<td>44010</td>
<td>Technik Deluxe Knife Set</td>
<td>#23</td>
</tr>
</tbody>
</table>

**AVEN, INC.**

4330 VARSITY DRIVE | ANN ARBOR, MI 48108

Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
Accu-Cut Oval Relief Head Cutter
- This popular shape can be used for many applications
- Relieved head allows easier access in tight confined areas
- ESD Safe Ergonomic Grips for superior comfort
- Designed to be durable

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Cutting Edge</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>108222F</td>
<td>Accu-Cut Mini Oval Head Cutter</td>
<td>Semi-Flush</td>
<td>0.15-1.25mm</td>
</tr>
<tr>
<td>108222F</td>
<td>Accu-Cut Oval Relief Head Cutter</td>
<td>Flush</td>
<td>0.15-1.25mm</td>
</tr>
<tr>
<td>108222F</td>
<td>Tapered Relief Head Cutter</td>
<td>Flush</td>
<td>0.15-1.25mm</td>
</tr>
</tbody>
</table>

Accu-Cut Large Oval Head Cutter
- 25% larger than our standard oval head cutters
- Larger cutting capacity
- ESD Safe Ergonomic Grips for superior comfort
- Designed to be durable

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Cutting Edge</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>108225F</td>
<td>Accu-Cut Large Oval Head Cutter</td>
<td>Semi-Flush</td>
<td>0.2-1.5mm</td>
</tr>
<tr>
<td>108225F</td>
<td>Accu-Cut Large Oval Head Cutter</td>
<td>Flush</td>
<td>0.2-1.5mm</td>
</tr>
<tr>
<td>108225F</td>
<td>Mini Oval Head Cutter</td>
<td>Flush</td>
<td>0.2-1.5mm</td>
</tr>
</tbody>
</table>

Accu-Cut XL Oval Head Cutter
- Extra large oval head for cutting heavy duty wire
- ESD Safe Ergonomic Grips for superior comfort
- Designed to be durable

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Cutting Edge</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>108295</td>
<td>Accu-Cut Oval Head Cutter</td>
<td>Semi-Flush</td>
<td>0.14mm</td>
</tr>
<tr>
<td>108295</td>
<td>Accu-Cut Oval Head Cutter</td>
<td>Flush</td>
<td>0.14mm</td>
</tr>
</tbody>
</table>

Accu-Cut Tapered Head Cutter
- Printed head allows for increased access in tight areas
- ESD Safe Ergonomic Grips for superior comfort
- Designed to be durable

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Cutting Edge</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>108225F</td>
<td>Accu-Cut Tapered Head Cutter</td>
<td>Semi-Flush</td>
<td>0.2-1.5mm</td>
</tr>
<tr>
<td>108225F</td>
<td>Accu-Cut Tapered Head Cutter</td>
<td>Flush</td>
<td>0.2-1.5mm</td>
</tr>
</tbody>
</table>

Register online to receive updates on the newest products and for the latest specials from Aven.
### Chain Nose Pliers 114mm (4.5")
- Manufactured from 400 series stainless steel
- Induction hardened jaws
- Dual leaf springs
- ESD Safe cushioned grips
- Box Joint construction provides superior jaw alignment and durability

### Chain Nose Pliers 127mm (5")
- Manufactured from 400 series stainless steel
- Induction hardened jaws
- Dual leaf springs
- ESD Safe cushioned grips
- Box Joint construction provides superior jaw alignment and durability

### Flat Nose Pliers 114mm - 127mm (4.5" - 6")
- Manufactured from 400 series stainless steel
- Induction hardened jaws
- Dual leaf springs
- ESD Safe cushioned grips
- Box Joint construction provides superior jaw alignment and durability

### Needle Nose Pliers 146mm (5.75")
- Manufactured from 400 series stainless steel
- Induction hardened jaws
- Dual leaf springs
- ESD Safe cushioned grips
- Box Joint construction provides superior jaw alignment and durability

### needle nose pliers curved 152mm (6")
- Manufactured from 400 series stainless steel
- Induction hardened jaws
- Dual leaf springs
- ESD Safe cushioned grips
- Box Joint construction provides superior jaw alignment and durability

### Precision Stainless Steel Pliers Set 6pc
- Induction hardened jaws
- Dual leaf springs
- ESD Safe cushioned grips
- Box Joint construction provides superior jaw alignment and durability
- Set includes: Technik Stainless Steel Pliers & Cutters - 10001, 10010, 10314, 10515, 10521, 10373

### Niptec Cutters & Pliers
- Niptec TR 5000 Cutter
  - Durable 5mm thick blades
  - Compact ergonomic design
  - Semi-flush cutting edge
  - For use on copper wire up to 12 AWG
  - ESD Safe grips make tool comfortable and easy to use

- Niptec TR 5000PG Cutter
  - Durable 5mm thick blades
  - Compact ergonomic design
  - Flush cutting edge
  - For use on copper wire up to 16 AWG
  - ESD Safe grips make tool comfortable and easy to use

- Niptec TR 25 Cutter
  - For use on copper wire up to 18 AWG
  - ESD Safe grips make tool comfortable and easy to use
  - Compact ergonomic design

- Niptec TR 25-E Cutter
  - For use on copper wire up to 18 AWG
  - Blue non-slip grips make tool comfortable and easy to use
  - Compact ergonomic design

- Niptec TR 20S Cutter
  - ESD Safe grips make tool comfortable and easy to use
  - Compact ergonomic design

- Niptec TR 20TM Cutter
  - Compact ergonomic design
  - Flush cutting edge
  - For use on copper wire up to 22 AWG

- Niptec TR T20M Cutter
  - Compact ergonomic design
  - For use on copper wire up to 22 AWG
  - Narrow cutting head angled at 45° for access into dense areas

### Diagonal Cutters Compound Action 6.5"
- Compact lever action handles give you more power for cutting and gripping
- Compound lever action handles require less force when cutting
- Durable, semi-flush cutting jaw will cut piano wire up to 2mm
- Ergonomic design provides extra comfort and ease in use

### Technical Specifications
- **Material:** Stainless steel
- **Size:** 152mm (6"), 127mm (5"), 114mm (4.5")
- **Type:** Bent Nose Pliers, Flat Nose Pliers, Needle Nose Pliers, Round Nose Pliers
- **Features:** Induction hardened jaws, Dual leaf springs, ESD Safe cushioned grips, Box Joint construction
Made from machined stainless steel, Aven’s Stealth Pliers are designed for heavy-duty use. Featuring screw joint construction for maximum durability, ensuring precise alignment for the life of the pliers. Ultra-responsive leaf springs provide easy opening and closing of the pliers for reduced hand fatigue during repetitive use. ESD safe, ergonomic hand grips provide protection against static build up and feel comfortable for all hand sizes. Ideal for projects that include forming, bending and precision assembly.
# Tweezers

## Choosing the Correct Tweezer

**Aven offers a wide variety of tweezers to meet a broad range of applications and 2 different quality grades.**

In order to choose the best tool for your application:

1. **Determine the type of points best suited for your application.**
2. **Refer to the material guide below and select the correct material for your application.**
3. **Determine the quality level required for your application if applicable.**

### Special Coatings (Available on non-magnetic stainless steel only)
- **TE** - Teflon Superior anti-scratch, anti-stick material. Acid resistant. 400°F/200°C
- **EP** - Epoxy Good electrical insulation and resistance to chemicals. Antiglare. 300°F/150°C

*To order tweezers with above mentioned coatings, call Aven for price and delivery time.*

---

## Material Selection Guide (Table 2)

<table>
<thead>
<tr>
<th>Material</th>
<th>Tip Hardness</th>
<th>Magnetism</th>
<th>Corrosion Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium</td>
<td>Excellent</td>
<td>Never</td>
<td>Excellent</td>
</tr>
<tr>
<td>Carbon steel</td>
<td>Excellent</td>
<td>Yes</td>
<td>Low</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>Very Good</td>
<td>Some</td>
<td>Good</td>
</tr>
<tr>
<td>Steel, Anti-magnetic</td>
<td>Good</td>
<td>None to very little</td>
<td>Excellent, Resistant Acids</td>
</tr>
<tr>
<td>Carbon Composite</td>
<td>Soft</td>
<td>None</td>
<td>Non-corrosive</td>
</tr>
</tbody>
</table>

### Titanium:
Titanium tweezers are excellent for use in the silicon chip industry, as they do not shed particles like the stainless steel. When it is determined that microscopic particles are a detriment when handling abrasive parts we recommend using titanium tweezers. In addition since titanium tweezers are 100% non magnetic, they are extremely useful when working with magnetic materials or when working in a magnetic field. Titanium is lightweight and a high strength material.

### Ceramic:
ESD Safe, non magnetic. Resists all chemicals except hydrofluoric acids. Withstands temperatures up to 900°F. Heat sink fighter.

### Plastic:
We offer static dissipative plastic tweezers. Plastic tweezers are non magnetic, resist virtually all commercial solvents. Non absorbent and easy to clean. Tips are non-marring.

### Carbide:
Fully ESD Safe (102 ohm) but at the same time, soft and non scratching. These conductive synthetic fiber tips are ideally suited to handle delicate and fragile components when extreme care and ESD safety are an absolute necessity.

### Quality Grades (Table 1)

#### Accu-Tek
- Made from the finest steels. Perfectly Balanced for a superior feel. Light weight with soft tension with accurately finished points. Recommended for work under high power magnification aerospace and micro electronics and in applications where high precision is required. All Accu-Tek precision tweezers are made from anti-acid, anti-magnetic, stainless steel.

#### Technik
- Finely crafted tweezers. Anti-glove finish to reduce eye strain. Hand finished points for accuracy. Recommended for micro electronics and precision grades.

---

## Tweezers

### Precision Tweezers

#### Style AA Tweezers
For general assembly, very strong and precise tips with fine finish. Available in different materials and quality grades. Length: 3” (130mm)

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>16013-BR</td>
<td>Aven-Tek Tweezers AA-BR</td>
<td>Brass</td>
</tr>
<tr>
<td>160120A</td>
<td>Technik Tweezers AA-SA</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>16011-ES</td>
<td>Aven Tweezers AA-ES</td>
<td>Carbon Steel, Nickel/Chrome Plated</td>
</tr>
<tr>
<td>16011TTS</td>
<td>Aven-Tek AA (Swiss Made)</td>
<td>Titanium</td>
</tr>
<tr>
<td>16011TS</td>
<td>Aven Tweezers AA</td>
<td>Titanium</td>
</tr>
<tr>
<td>16011BZ</td>
<td>3-2 Pak Tweezers AA-BZ</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

#### Style AC Tweezers
Study tips for bending and handling very fine wire and components. Tweezers feature finger grips. Available in different materials and quality grades. Length: 4-3/4” (120mm)

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>160160A</td>
<td>Technik Tweezers AC-SA</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>16015-ES</td>
<td>Aven Tweezers AC-ES</td>
<td>Carbon Steel, Nickel/Chrome Plated</td>
</tr>
</tbody>
</table>

#### Style MM Tweezers
General purpose, tweezers with hardened, precision tips and fine finish. Available in different materials and quality grades. Length: 5” (130mm)

<table>
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</tr>
</thead>
<tbody>
<tr>
<td>160160A</td>
<td>Technik Tweezers MM-SA</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>16015-ES</td>
<td>Aven Tweezers MM-ES</td>
<td>Carbon Steel, Nickel/Chrome Plated</td>
</tr>
</tbody>
</table>

#### Style O Tweezers
Extremely fine straight points for general handling and positioning of miniature parts or fine wires. Available in different quality grades. Length: 4-3/4” (120mm)

<table>
<thead>
<tr>
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<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>160160A</td>
<td>Technik Tweezers O-SA</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>16015-ES</td>
<td>Aven Tweezers O-ES</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

#### Style 0A Tweezers
Straight point tweezers with radius edges are uniquely designed for working in small yet dense areas. Length: 4-3/4” (120mm)

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>160160A</td>
<td>Technik Tweezers 0A-SA</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

#### Style 0C Tweezers
Straight point tweezers with flat edges, fine tips and shortened overall length for delicate handling of small parts. Available in different quality grades. Length: 3-1/2” (90mm)

<table>
<thead>
<tr>
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<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>160160A</td>
<td>Technik Tweezers 0C-SA</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

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Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
Surface Tweezers

Available in different materials and quality grades. Length: 4-3/4” (120mm)

**Style 2AB Tweezers**

Ideal for handling wafers, delicate parts, and delicate assembly work. Length: 4-3/4” (120mm)

**Style 3 Tweezers**

Fine point tweezers for general assembly or light magnification applications. Available in different materials and quality grades. Length: 4-3/4” (120mm)

**Style 2C Tweezers**

Fine point tweezers, slightly shorter than #3, for general assembly or light magnification applications. Available in different materials and quality grades. Length: 4-1/4” (105mm)

**Style 5B Tweezers**

Features super micro high precision bent tips provide maximum visibility. Available in different materials and quality grades. Length: 4-1/4” (105mm)

**Style 6 Tweezers**

Angled fine tip is designed to allow greater access into tight areas. Available in different materials and quality grades. Length: 4-4/5” (125mm)

**Style 6A5 Tweezers**

Long fine curved tips are designed to allow greater access into tight areas. Length: 5-1/2” (140mm)

**Style 66 Tweezers**

Long double bent tips are designed to allow greater access into tight areas. Length: 5-1/2” (140mm)

**Style 7 Tweezers**

Designed with curved, super fine points for easy assembly work, allowing hand to rest on bench. Available in different materials and quality grades. Length: 4-1/2” (115mm)

**Style 5A Tweezers**

Features the sharpest points available. The oblique fine points provide greater visibility. Available in different materials and quality grades. Length: 4-1/2” (115mm)

**Style 5F Tweezers**

Features the sharpest points available. The oblique fine points provide greater visibility. Available in different materials and quality grades. Length: 4-1/2” (115mm)

**Style 4 Tweezers**

Design for extra fine work. Blades taper sharply from body to form very fine long rounded points. Available in different materials and quality grades. Length: 4-1/4” (105mm)

**Style 4 Tweezers**

Long fine curved tips are designed to allow greater access into tight areas. Length: 5-1/2” (140mm)

**Style 7 Tweezers**

Designed with curved, super fine points for easy assembly work, allowing hand to rest on bench. Available in different materials and quality grades. Length: 4-1/2” (115mm)
**Tweezers**

**5-Piece Precision Tweezer Set**
- Finely crafted tweezers
- Anti-glide finish to reduce eye strain
- Hand finished points for accuracy
- Ideal for micro electronics and precision assembly
- Contains AA-SA, OO-SA, 3C-SA, 5-SA, 7-SA styles
- Supplied in an elegant padded wooden case

**18475USA**

**Technik 5-Piece Precision Tweezer Set**
- Superior finish for enhanced precision
- Anti-magnetic and non-corrosive material
- Ideal for handling sensitive components

**18480EZ**

**E-Z Pik 6-Piece Tweezer Set**
- Color coded for easy identification
- Contains AA-SA, OO-SA, OODSA, 3C-SA, 5-SA and 7-SA styles
- Stainless steel, anti-magnetic, anti-acid
- Highly durable special coating for high visibility and easy identification

**18480USA**

**Titanium 6-Piece Precision Tweezer Set**
- Aven’s most popular titanium tweezers
- Styles in a handy pouch
- Titanium tweezers do not shed particles
- Lightweight and strong material
- Contains AA, 3C, 5C, 5-A, 7 and 7-SA styles
- Extremely useful when handling magnetic materials

**18480TT**

**Carbofib 3-CF Tweezers**
- These Swiss made, ESD safe tweezers feature excellent wear and abrasion resistance.
- Ideal for handling sensitive materials such as electronic components, micro-mechanical parts, glass and ceramic substrates.
- Unmatched durability and strength of metal and ceramic substrates.
- Contains AA-SA, OODSA, 3-5-SA, 5-SA and 7-SA styles

**18532**

**Style 2B Plastic Tweezers**
- Curved with rounded tips and made of chemically resistant lightweight plastic, this anti-static tool will not damage sensitive electronic devices such as hard drives or contaminates materials when used in corrosive environments.

**18514**

**Style 2C Plastic Tweezers**
- Straight with very fine tips and made of chemically resistant lightweight plastic, this anti-static tool will not damage sensitive electronic devices such as hard drives nor contaminate materials when used in corrosive environments.

**18517**

**Style 7 Plastic Tweezers**
- Curved with very fine tips and made of chemically resistant lightweight plastic, this anti-static tool will not damage sensitive electronic devices such as hard drives nor contaminate materials when used in corrosive environments.

**18523**

**Style 35 Plastic Tweezers**
- Curved with flat tips and made of chemically resistant lightweight plastic, this anti-static tool will not damage sensitive electronic devices such as hard drives or contaminates materials when used in corrosive environments.

**18526**

**Style 3A Plastic Tweezers**
- Straight with broad, flat tips and made of chemically resistant lightweight plastic, this anti-static tool will not damage sensitive electronic devices such as hard drives or contaminates materials when used in corrosive environments.

**18529**

**Style 702A ESD Plastic Tweezers**
- Manufactured from Polyetheretherketone reinforced with 30% carbon fiber (PEEK/CF30), these very hard, rigid, high tensile and flexural strength tweezers are ideal for the handling of components in cleaning, chemical, and assembly of components.

**18536**

Register online to receive updates on the newest products and for the latest specials from Aven.

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Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
Aven Self Locking Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Cross-lock mechanism opens when pressed and closes when released

Product ID | Description |
---|---|
18415 | Aven Self Locking Tweezers - Straight |
18416 | Aven Self Locking Tweezers - Curved |

Aven Cross Locking Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Ideal for holding and holding small parts

Product ID | Description |
---|---|
18419 | Aven Cross Locking Tweezers - Narrow |
18420 | Aven Cross Locking Tweezers - Wide |
18421 | Aven Cross Locking Tweezers - Narrow Short |

Aven College Forceps w/ Lock
- Low thermal conductivity and high thermal shock resistance
- Ideal for soldering and holding small parts
- Stainless steel finish provides excellent corrosion resistance
- Medium-sharp, serrated tip is helpful when working in confined spaces
- Cross-lock mechanism opens when pressed and closes when released
- Ideal for soldering, separating and removing small items
- Curved tip is helpful when working in confined spaces

Product ID | Description |
---|---|
18443 | Aven College Forceps w/Lock |
18444 | Aven College Forceps w/Alignment Pin |
18445 | Aven College Forceps w/Straight Serrated Tips |

Aven Utility Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Curved tips are helpful when working in confined spaces

Product ID | Description |
---|---|
18425A | Aven Utility Tweezers - Carved |
18426 | Aven Utility Tweezers - Straight |

Aven Toothed Tissue Forceps
- Stainless steel finish provides excellent corrosion resistance
- Ideal for handling various thicknesses of tissues
- Toothed models are ideal for handling the various thicknesses of tissues
- Stainless steel finish provides excellent corrosion resistance
- Serrated handles provide better gripping
- Blunt tips are useful for handling larger items
- Curved, serrated, or straight tips are available

Product ID | Description |
---|---|
18487 | Aven Toothed Tissue Forceps - Toothed |
18491 | Aven Toothed Tissue Forceps - Serrated |
18494 | Aven Toothed Tissue Forceps - Straight |

Quick-Test Auto-Scanning Tweezers
- Measures AC/DC voltage, resistance, continuity & diode test
- Auto Scanning Mode/Auto range
- Testing pins gold plated to reduce resistance and prevent rust
- Uses Lithium battery CR2012, included
- Will automatically identify whether component is a resistor, capacitor or diode

Product ID | Description |
---|---|
18910 | Quick-Test Auto-Scanning Tweezers |

Register online to receive updates on the newest products and for the latest specials from Aven.

AVEN, INC. | 4330 VARSITY DRIVE | ANN ARBOR, MI 48108

Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
Soldering & Desoldering
Soldering/Desoldering Tools & Accessories

**Soldering Iron 80W with Fine Tip**
- Ideal for general purpose soldering applications including metal board, tube or large components
- Round, soft grip, non-slip handle
- Durable cord with a 5-foot reach
- Fitted with long life replaceable fine tip

**Soldering Iron 40W with Fine Tip**
- Ideal for general purpose soldering
- Round, soft grip, non-slip handle
- Durable cord with a 5-foot reach
- Fitted with long life replaceable fine tip

**C-Series Soldering Iron Tips**
- Long life, lead-free soldering iron tips
- Replacement tips for soldering the different components of PCBs
- Four different sizes
- Includes two tips
- For use with 17400 & 17405 ESD Safe Soldering Stations with LCD Display

**N-Series Soldering Iron Tips**
- Long life, lead-free soldering iron tips
- Replacement tips for soldering the different components of PCBs
- Four different sizes
- Includes two tips
- For use with 17510 Soldering Iron 80W

**B-Series Soldering Iron Tips**
- Long life, lead-free soldering iron tips
- Replacement tips for soldering the different components of PCBs
- Four different sizes
- Includes two tips
- For use with 17510 Soldering Iron 80W

**Desoldering Pump - Metal Body 7.5”**
- Durable corrosion resistant aluminum construction with precision metal plunger
- Cushioned shock reduction minimizes board damage
- Push-button plunger release
- Easy to clean one-touch cylinder

**Portable Soldering Iron 30-70W**
- 30 to 70 Watt power range
- Cordless, Simple and Safe Operation
- Ready to use in 20 seconds after ignition
- Adjustable tip temperature from 400°C to 1300°C (752°F to 2372°F)
- Supplied with 1mm Conical Tip

**Desoldering Wick**
- Made of clean, oxide-free copper wire
- Tight swage enables quick “on and off” desoldering
- Concentrated fine copper bradning utilizes less length of wick for each desoldering application
- RoHS compliant

**Desoldering Pump - High Impact Plastic 13”**
- Durable corrosion resistant plastic construction with precision metal plunger
- Cushioned shock reduction minimizes board damage
- Teflon (PTFE) non-stick coated tip
- Easy to clean one-touch cylinder

**Desoldering Pump - ESD Safe Plastic 8.5”**
- Durable corrosion resistant plastic construction
- Easy to clean one-touch cylinder
- Cushioned shock reduction minimizes board damage
Soldering & Desoldering

Benchtop Accessories & Soldering Aids

Benchttop Smoke Absorber
- Removes flux fumes from soldering work bench
- Fumes absorbed by carbon activated filter
- Fan is quiet and will not add significant noise to your workspace
- Stand allows the smoke absorber to be adjusted to varying angles

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>17701</td>
<td>Smoke Absorber</td>
</tr>
<tr>
<td></td>
<td>Carbon Activated Filter Unit with PVC Bag</td>
</tr>
</tbody>
</table>

Aven Heat Guns
- Heats Up Quickly
- 3 Nozzle Attachments For A Variety of Applications
- Durable Construction
- High and Low Airflow Settings
- Compact, Ergonomic Design
- Adjustable Heat Control

<table>
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<tr>
<th>Product ID</th>
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</thead>
<tbody>
<tr>
<td>17601</td>
<td>Heat Gun 1500W with Adjustable Temperature Control</td>
</tr>
<tr>
<td>17602</td>
<td>Heat Gun 1500W with Digital Temperature Control</td>
</tr>
</tbody>
</table>

Solder Reel Stand
- Allows solder wire to be drawn out smoothly
- Compact design keeps work benches neat and orderly
- Holds up to 1kg (approximately 2lbs.) roll of solder wire
- Solder reel stand is the ideal solution for easy storage and retrieval

<table>
<thead>
<tr>
<th>Product ID</th>
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<tbody>
<tr>
<td>17560</td>
<td>Solder Reel Stand</td>
</tr>
</tbody>
</table>

Soldering Iron Stands
- Ideal for holding pencil type soldering irons
- Weighted metal base features built in sponge tray
- Designed to withstand everyday industrial use
- Two per pack

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<thead>
<tr>
<th>Product ID</th>
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<tbody>
<tr>
<td>17530</td>
<td>Soldering Iron Stands</td>
</tr>
</tbody>
</table>

Soldering Iron Stand with Soft Coiled Brass Tip Cleaner
- Replaceable soft coiled brass tip cleaner
- Cleans tips without messy wet sponges
- Uses low abrasive brass, no water needed
- Works with any tip
- Lengthens tip life by reducing oxidation
- Sturdy heavy duty stand with built in tip cleaner

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<tbody>
<tr>
<td>17538</td>
<td>Soldering Iron Stand with Soft Coiled Brass Tip Cleaner</td>
</tr>
<tr>
<td>17539-TC</td>
<td>Soft Coiled Brass Tip Cleaner</td>
</tr>
</tbody>
</table>

Adjustable Circuit Board Holder
- Retractable to accommodate various board sizes up to 198mm wide and up to 4mm thick
- Clamps allow PCB to rotate 360°
- Rigid metal structure
- Rubber feet of the base ensure stability
- Ideal for clamping PCB for soldering/ desoldering or rework

<table>
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</thead>
<tbody>
<tr>
<td>17010</td>
<td>Adjustable Circuit Board Holder</td>
</tr>
</tbody>
</table>

Helping Hands Magnifier with Clamps
- Useful auxiliary tool in soldering, model making and other hobbies
- Heavy-duty cast iron base provides stability
- Magnifier can be swiveled and fixed to desired position or angle
- Two alligator spring clips that hold work firmly in any position
- 2x magnifier is removable

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<td>20000</td>
<td>Helping Hands Magnifier with Clamps</td>
</tr>
</tbody>
</table>

Third Hand w/Tweezers
- Stainless steel construction
- Heavy-duty base provides excellent stability and prevents movement
- Designed as a “third hand” allowing both hands free for soldering
- Multi-position swivel clamps permit holding of piece at any angle

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<td>Third Hand w/Tweezers</td>
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5-Piece Solder Aid Kit
- Popular solder aids
- Tweezers included
- Head sink included
- 5-piece set provides the right tool at the right time

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<tr>
<td>17523</td>
<td>5-Piece Solder Aid Kit</td>
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</table>

Soldering Aids 6-Pc Kit
- Kit includes six of the most popular soldering aids
- Specialized tools to remove components from PCB's and cleaner holes choked with solder
- Brushes designed for cleaning surface contamination
- Scrapers remove shielding from wires and rust from metal to improve adhesion of solder

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<tr>
<td>17524</td>
<td>Soldering Aids 6-Pc Kit</td>
</tr>
</tbody>
</table>

Helping Hands Magnifier with Clamps
- Magnifier can be swiveled and fixed to desired position or angle
- Two alligator spring clips that hold work firmly in any position
- 2x magnifier is removable

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