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 ensures 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, turn 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.

Item# Description
26700-135 SharpVue Video Inspection System

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 Aven Sharpvue system, Imaging Software, wireless remote control

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2015 Digital Catalog
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Modern Design, Ease Of Use

Aven’s SharpVue system is designed to inspect, capture images and video, and much more with ease. Adjust your settings with the included easy-to-use remote control.

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.

Built-In Features

For more information on SharpVue accessories visit aveninc.com

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.

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.

Features

- 2-megapixel sensor
- HDMI output connects directly to an HD monitor
- Future firmware updates
- 30 energy-efficient LED illumination with intensity control
- Up to 132x Magnification
- Infrared remote control for all major features

Cyclops HDMI Digital Microscope

<table>
<thead>
<tr>
<th>Effective Pixels</th>
<th>2M Pixels</th>
</tr>
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<tbody>
<tr>
<td>Image Sensor</td>
<td>CMOS Color</td>
</tr>
<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; intensity control</td>
</tr>
<tr>
<td>Video Output</td>
<td>1920x1080p HD</td>
</tr>
<tr>
<td>Gain Control</td>
<td>Automatic</td>
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<tr>
<td>Power Source</td>
<td>DC 5A/2A input; Cable length: 140cm</td>
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<tr>
<td>Power Consumption</td>
<td>0.255A (MAX)</td>
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<tr>
<td>Dimensions</td>
<td>106 x 152 mm</td>
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<tr>
<td>Weight</td>
<td>0.70 lbs</td>
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</table>

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 21.3" 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.

AVEN, INC. | 4330 VARSITY DRIVE | ANN ARBOR, MI 48108
Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
The innovative ProVue Deluxe LED Magnifying lamp from Aven is the new standard in inspection lighting. This durable aluminum design features a 5 inch, 5 diopter glass lens for crystal clear, distortion-free viewing. Featuring 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 set your inspection needs, and the convenient built-in dimmer allows you to control the lamp brightness.

**ProVue Deluxe LED Magnifying Lamp**

**Efficient and Powerful**

---

**Objective Lenses**

- **Cyclops 4x Long Focus Lens**  
  Item #: 26700-100-4X01  
  Provides operators with a working distance of approximately 95mm - 218mm (3.75 - 8.5 inches).

- **Cyclops Objective Lens 10X**  
  Item #: 26700-100-1X01  
  Use of this lens will increase magnification, allowing even finer clarity for examining small objects. Includes lighting attachment.

- **Cyclops Objective Lens 4K with Polarizer**  
  Item #: 26700-100-4K01  
  Aiding in the illumination and study of small and shiny parts, this polarized lens reduces problematic glare.

---

**Cyclops Articulating Arm Stands**

- **Cyclops Articulating Arm Stand, Post Height 17-in**  
  Item #: 26700-170-101C10  
  17" post and an adjustable swivel arm provide versatile positioning options.

- **Cyclops Articulating Arm Stand, Post Height 12-in**  
  Item #: 26700-170-101C15  
  12" post and an adjustable swivel arm provide versatile positioning options.

---

**Monitor Mounts**

- **22" LCD Monitor**  
  Item #: 26700-406  
  Outstanding performance, eco-friendliness and smart use of energy complement the sleek design. LED Back-lit with 50,000,000:1 Smart Contrast Ratio, Full 1080P with HDMI.

---

**Add-Ons**

- **Cyclops Digital Microscope**
- **Cyclops 4x Long Focus Lens**
- **Cyclops Objective Lens 10X**
- **Cyclops Objective Lens 4K with Polarizer**
- **Cyclops Articulating Arm Stand, Post Height 17-in**
- **Cyclops Articulating Arm Stand, Post Height 12-in**
- **22" LCD Monitor**
- **Cyclops Laser Pointer**

---

**Accessories**

- **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. Includes light intensity control.

- **Objective Lenses**
  - 4X Long Focus Lens
  - Objective Lens 10X
  - Objective Lens 4K with Polarizer

- **Articulating Arm Stands**
  - Post Height 17-in
  - Post Height 12-in

- **Monitor Mounts**
  - 22" LCD Monitor

- **Other Accessories**
  - Cyclops Digital Microscope
  - Cyclops 4x Long Focus Lens
  - Cyclops Objective Lens 10X
  - Cyclops Objective Lens 4K with Polarizer

---

**Specifications**

- **MAGNIFICATION**
- **LENS DIAMETER**
- **ADJUSTABLE ARM LENGTH**
- **COLOR**
- **LIGHTING**

---

**Part #**  | **Description**  | **Lens**
---|---|---
26700-100-4X01 | Cyclops 4x Long Focus Lens | 5X, 4X
26700-100-1X01 | Cyclops Objective Lens 10X | 10X
26700-100-4K01 | Cyclops Objective Lens 4K with Polarizer | 4K
26700-170-101C10 | Cyclops Articulating Arm Stand, Post Height 17-in | 17-in
26700-170-101C15 | Cyclops Articulating Arm Stand, Post Height 12-in | 12-in
26700-406 | 22" LCD Monitor | LED Back-lit
26700-400-GN02 | Cyclops Laser Pointer | 400-GN02
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.

### Mighty Vue Deluxe LED Magnifying

**Efficient and Powerful**

- **7 Inch / 5 Diopter Lens**
- 2.25x Magnification
- **72 Dual Row SMD LED Lights**
- **Heavy-Duty Mounting Clamp**
- ** picturesque Brightness Control**
- **Fully Rotatable Lamp Head**
- **Touch-Sensitive Brightness Control**

---

### ESD Safe Soldering Stations

**Compact & Convenient Soldering**

- **SOLDERING IRON 80W WITH FINE TIP**
  - **Power**: 80W
  - **Temperature**: Up to 500°C (932°F)
  - **Dimensions**: 285mm x 35mm x 35mm (11.25" x 1.375" x 1.375")
  - **Tip**: Fine
  - **Weight**: 0.2kg (0.45 lbs)
  - **Package Contents**: Soldering Iron 80W with Fine Tip

**Part # Description Price**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
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<tbody>
<tr>
<td>17400</td>
<td>Soldering Station with LCD Display ESD Safe 400 Series</td>
<td>$134.95</td>
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<tr>
<td>17405</td>
<td>Soldering Station with LCD Display ESD Safe</td>
<td>$154.95</td>
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---

### Soldering Iron 80W with Fine Tip

This professional grade soldering iron produces 80 watts (up to 500°C) and is ideal for general purpose soldering applications including metal board, tube or large components, electrical/electronic components, audio equipment, RC hobbies and more.

**Part # Description Price**

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>17400</td>
<td>Soldering Iron 80W with Fine Tip</td>
<td>$16.50</td>
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</table>
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, 50x, 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

Product ID Description
26700-201* Mighty Scope Connect Wi-Fi Digital Microscope (10x-200x)
26700-202 Mighty Scope XL2 Digital Microscope
- Large 2.8" LCD color screen
- Built-in 2 gigabyte flash memory
- 4 white LED lights with brightness control
- Magnification: 10x, 40x (optical) 15x to 200x (digital)
- USB port and cable for computer link and charging
- Adjustable-height stand
- Lithium-ion battery
- Advanced application software

Product ID Description
26700-202 Mighty Scope XL2 Digital Microscope
- Magnification: 10x, 40x (optical) 15x to 200x (digital)
- USB port and cable for computer link and charging
- Adjustable-height stand
- Lithium-ion battery
- Advanced application software

Mighty Scope Analog Microscope

- New models available with 2 and 9 MP CMOS sensor
- Anti-slip coating engineered for comfort and cushioning
- 2-stage intensity control of 8 LEDs for shadow-free lighting
- USB cable plugs into any computer to save, process and share images
- Snap button conveniently captures crisp, clear, true-color images
- Windows-compatible measurement and imaging software
- Broad magnification range (10x - 200x)
- Ideal for general inspection and use in labs, medical offices, classrooms and by hobbyists

Product ID Description
26700-202 Mighty Scope XL2 Digital Microscope
- Magnification: 10x, 40x (optical) 15x to 200x (digital)
- USB port and cable for computer link and charging
- Adjustable-height stand
- Lithium-ion battery
- Advanced application software

zipScope USB Digital Microscopes

- New models available with 2 and 9 MP CMOS sensor
- Anti-slip coating engineered for comfort and cushioning
- 2-stage intensity control of 8 LEDs for shadow-free lighting
- USB cable plugs into any computer to save, process and share images
- Snap button conveniently captures crisp, clear, true-color images
- Windows-compatible measurement and imaging software
- Broad magnification range (10x - 200x)
- Ideal for general inspection and use in labs, medical offices, classrooms and by hobbyists

Product ID Description
26700-350 Mighty Scope XL2 Digital Microscope
- Magnification: 10x, 40x (optical) 15x to 200x (digital)
- USB port and cable for computer link and charging
- Adjustable-height stand
- Lithium-ion battery
- Advanced application software

* iPad not included
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 534x for PC viewing.

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

Digital Microscope Stands

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>26700-210</td>
<td>Mighty Scope Mount Stand</td>
</tr>
<tr>
<td>26700-211</td>
<td>Mighty Scope Standard Stand</td>
</tr>
<tr>
<td>26700-212</td>
<td>Mighty Scope Flexi Stand</td>
</tr>
<tr>
<td>26700-213</td>
<td>Mighty Scope Gooseneck Stand</td>
</tr>
<tr>
<td>26700-214</td>
<td>Mighty ScopeBoom Stand</td>
</tr>
<tr>
<td>26700-215</td>
<td>Universal Digital Microscope Stand w/Backlight</td>
</tr>
<tr>
<td>26700-216</td>
<td>2D Stand for Digital Microscopes and Lenses</td>
</tr>
<tr>
<td>26700-217-2D</td>
<td>2D Stand with LED for Digital Microscopes and Camera</td>
</tr>
<tr>
<td>26700-218-CH</td>
<td>Cyclops Articulating Arm Stand, Post Height 17.4&quot;</td>
</tr>
<tr>
<td>26700-219-CH</td>
<td>Cyclops Articulating Arm Stand, Post Height 12&quot;</td>
</tr>
</tbody>
</table>

SPZ-50 Series Stereo Zoom Microscopes

- Magnification Range: 6.7x to 50x (3.35x to 200x with optional lenses)
- Large 7x to 46x Zoom Ratio (Vivx Zoom Ratio in this class)
- Field of View: 34.3mm to 6.6mm (1.35" to 0.4")
- Working Distance: 108mm (4.25")
- Includes high eye point DWH15x (FN.23) eyepieces for comfortable viewing even for operators with eyeglasses
- Trinocular body type features click stop zoom adjustment for extremely accurate measuring
- Trinocular port includes easy adjust C-mount camera adapter for fine focusing
- Includes rubber eyeguards and dust cover

NSW Series Binocular Stereo Microscopes

- Dual magnification (10x/20x, 10x/30x, 6x/20x)
- Field of View 38.3mm at 6x
- Field of View 65mm at 20x
- Field of View 7.6mm at 30x
- Includes DWH10x (FN.23) eyepieces
- Includes rubber eyeguards and dust cover

Register online to receive updates on the newest products and for the latest specials from Aven.
Optical Data for DSZ-44 & DSZV-44

- Optical Data for DSZ-44
  - Includes Wide Field DSW10x (F.N.23) eyepieces
  - Magnification Range: 10x to 44x
  - Field of View: 10mm to 2.8mm (0.39") to 0.11"
  - Working Distance: 80mm (3.15"
  - Includes DSW10xZ (F.N. 20) eyepieces
  - Optional eyepieces available include DSW15x (F.N.15) and DSW20x (F.N.11.4)
  - Diopter adjustment on both eyepiece tubes
  - Adjustable Interpupillary Distance of 50mm to 74mm (1.96" to 2.91") accommodates any operator
  - Coarse and fine focusing, ideal for fine detail work

- Optical Data for DSZV-44
  - Optional eyepieces available include DSW10xZ (F.N. 20) eyepieces
  - Includes DSW15x (F.N.15) eyepieces
  - Optional eyepieces available include DSW20x (F.N.11.4) eyepieces
  - Diopter adjustment on both eyepiece tubes
  - Adjustable Interpupillary Distance of 50mm to 74mm (1.96" to 2.91") accommodates any operator
  - Coarse and fine focusing, ideal for fine detail work

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.

Visit www.aveninc.com to register online to receive updates on the newest products and for the latest specials from Aven.
**STEREO ZOOM MICROSCOPES**

**Preconfigured Microscope Systems**

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>26800B-308</td>
<td>DSZ-44 Stereo Zoom Binocular Microscope on Stand DABS with LED FOI</td>
</tr>
<tr>
<td>26800B-367</td>
<td>DSZ-44 Gemoscope on Stand PLED with Mighty Cam USB 5M CMOS Camera</td>
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<tr>
<td>26800B-361</td>
<td>DSZ-44 Gemoscope on Stand DABS w/ LED FOI</td>
</tr>
<tr>
<td>26800B-362</td>
<td>DSZ-44 Gemoscope with Stand PLED w/ LED FOI</td>
</tr>
</tbody>
</table>

**DSZ-44 Gemoscope**

- **Magnification Range**: 10x to 44x
- **Zoom Ratio**: 4.4:1
- **Field of View**: 23.5-2.5mm (0.91"-0.2")
- **Working Distance**: 90mm (3.54")
- **Includes wide field DSW10x (FN 23) eyepieces**
- **Dissector adjustment on both eyepiece tubes**
- **Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator
- **Multi coated optical components, free from chromatic and spherical aberration**
- **Coarse and fine focusing, ideal for fine detail work**

**DSZ-44 Gemoscope w/1080P HD Camera**

- **Magnification Range**: 10x to 44x
- **Zoom Ratio**: 4.4:1
- **Field of View**: 23.5-2.5mm (0.91"-0.2")
- **Working Distance**: 90mm (3.54")
- **Includes wide field DSW10x (FN 23) eyepieces**
- **Dissector adjustment on both eyepiece tubes**
- **Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator
- **Multi coated optical components, free from chromatic and spherical aberration**
- **Coarse and fine focusing, ideal for fine detail work**
- **1080P HD camera for unsurpassed imagery**
- **GBKx5 and 50x objectives with independently controllable fluorescent front light and dimmable halogen pipe light with separate controls**
- **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**

**DSZ-44 Gemroscope**

- **Magnification Range**: 10x to 44x
- **Zoom Ratio**: 4.4:1
- **Field of View**: 23.5-2.5mm (0.91"-0.2")
- **Working Distance**: 90mm (3.54")
- **Includes wide field DSW10x (FN 23) eyepieces**
- **Dissector adjustment on both eyepiece tubes**
- **Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator
- **Multi coated optical components, free from chromatic and spherical aberration**
- **Coarse and fine focusing, ideal for fine detail work**

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**See Aveng's exclusive article**

"How to Select the Right Microscope or Video Inspection System"
**NSW-20 Stereo Binocular Microscope with Stand PLED**

- **Magnification:** 10x to 20x
- **Field of View:** 10x, 23mm (0.91")
- **Field of View:** 20x, 15.0mm (0.59")
- **Working Distance:** 11.5mm (0.45")
- **Includes wide field DV05 (10x) eyepieces**
- **Dipter adjustment on both eyepiece tubes**
- **Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator**
- **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 detail work**

**NSW-30 Stereo Binocular Microscope with LW Stand & LED Ring Light**

- **Magnification:** 10x & 20x
- **Field of View:** 10x, 23mm (0.91")
- **Field of View:** 20x, 15.0mm (0.59")
- **Working Distance:** 6.2mm (0.25")
- **Includes wide field DV05 (10x) eyepieces**
- **Dipter adjustment on both eyepiece tubes**
- **Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator**
- **Mounted in an E-ARM focus mount attached to a LW articulating arm stand that extends area of view and working distance**
- **60 LED Ring Light with brightness control**
- **Diopter adjustment on both eyepiece tubes**
- **Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator**
- **Mounted in a LW articulating arm stand that extends area of view and working distance**
- **Compact lightweight pole stand with focus mount**
- **High Output LED Fiber optic illuminator and ring light provide clear illumination**
- **Multi-coated optical components, free from chromatic and spherical aberration**
- **Coarse and fine focusing, ideal for detail work**

**NSW-620 Stereo Binocular Microscope with Stand PLED**

- **Magnification:** 6x & 20x
- **Field of View:** 38.3mm (1.51")
- **Field of View:** 20x, 11.5mm (0.45")
- **Working Distance:** 82mm (3.23")
- **Includes wide field DV05 (10x) eyepieces**
- **Dipter adjustment on both eyepiece tubes**
- **Adjustable Interpupillary Distance of 52mm to 75mm (2.04" to 2.95") accommodates any operator**
- **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 detail work**

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

**Contact us:**
- Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com

**Create Your Own Custom Video Inspection System**

With a large variety of adapters, auxiliary lenses, cameras, lighting, inspection and control options, video capture cards and stands you can create an inspection system that will meet your specific requirements. Whether you are inspecting objects like integrated circuits, soldered joints and small parts, or you require magnification for precision assembly we can provide a customized solution to fit your needs.

**Video Inspection Systems**

**Micro Lens System Zoom 640**

- **Infinity Optical Design for large depth of field and zoom ratio**
- **Parfocal throughout zoom range**
- **Compact design**
- **High contrast images and vivid colors**

- **Aven 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 4.0x. 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 for your application.**

**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 16.9mm (0.67") or smaller**

- **The Zoom 7000 is a close-focusing macro video lens ideal for applications where objects over 27mm (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.**

**Visit**

www.aveninc.com
Video Inspection Systems

Adapters, Couplers and Objective Lenses

Objective Lens 0.5x
- Objective Lens for Micro Video Lens System Zoom 640
- Reduces magnification by 0.5x
- Color corrected lens system
- Working distance: 17.7mm (0.7")
- 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: 82mm (3.2")
- See optical specification chart for more details

Objective Lens 1.5x
- Objective Lens for Micro Video Lens System Zoom 640
- Color corrected lens system
- Working distance: 82mm (3.2")
- See optical specification chart for more details

Objective Lens 2x
- Objective Lens for Micro Video Lens System Zoom 640
- Color corrected lens system
- Working distance: 82mm (3.2")
- See optical specification chart for more details

Optical Data Chart

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<thead>
<tr>
<th>Magnification</th>
<th>Objective Coupler</th>
<th>Working Distance</th>
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<tbody>
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<td>0.5X</td>
<td>C-Mount Coupler 0.5x</td>
<td>0.90m-6.6X</td>
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<tr>
<td>2X</td>
<td>C-Mount Coupler 2x</td>
<td>3.60m-31.0X</td>
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</tbody>
</table>

Video Inspection Systems

Preconfigured Micro Zoom Video Inspection Systems

Micro Zoom Series 640 PK1
- PC not required for image processing
- Produces crisp clear images
- Produces light 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 50x to 340x
- Field of view: 8.8 x 8.8 to 3.4 x 3.4
- Field of view: 2.1 x 2.1 to 0.8 x 0.8
- White LED Fiber Optic Illumination
- Color camera with moveable and switchable crosshairs
- On-screen menu for controlling color, contrast, white balance etc
- On-screen magnification from 50x to 340x

Micro Zoom Series 640 PK2
- PC not required for image processing
- Produces light LED illumination with intensity control
- On-screen menu for controlling color, contrast, white balance etc
- On-screen magnification from 50x to 340x

Micro Zoom Series 640 PK3
- In-line coaxial illumination helps reduce glare
- In-line coaxial illumination helps reduce glare
- Produces crisp clear images
- Color camera with moveable and switchable crosshairs
- On-screen menu for controlling color, contrast, white balance etc
- On-screen magnification from 50x to 340x

Micro Zoom Series 640 with Coaxial Illumination PK 5
- In-line coaxial illumination helps reduce glare
- Produces crisp clear images
- Color camera with moveable and switchable crosshairs
- On-screen menu for controlling color, contrast, white balance etc
- On-screen magnification from 50x to 340x
Video Inspection Systems

Macro Series Zoom 7000 PK M1
- Stunning Life Like Picture on 22" HD LCD Monitor
- Large Magnification Range: 3.7x to 61x
- Large working distance: 117.8 to 304.8mm
- 6:1 zoom allows for quick magnification of area of interest
- 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 Series Zoom 7000 PK M2
- Stunning Life Like Picture on LCD Monitor
- Large Magnification Range: 3.7x to 61.9x
- Large working distance: 117.8 to 304.8mm
- 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 Series Zoom 7000 PK M3
- Stunning Life Like Picture on 22" HD LCD Monitor
- Large Magnification Range: 3.7x to 61x
- Large working distance: 117.8 to 304.8mm
- 6:1 zoom allows quick magnification of area of interest
- Light weight articulated 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

Microscope & Video Accessories

CCD & CMOS Cameras

MightyCam USB SM CMOS Camera
- The MightyCam USB SM CMOS camera includes wide-angle software which produces stunning images with exceptional clarity for measuring, analyzing and annotating your magnified images. The large 5M CMOS sensor produces excellent color fidelity offering true-to-life images with no need for adjustment. The versatile CS/CS-Lens mount adapter ring attaches between camera and lens, and converts a C-Mount lens to C-Mount camera to achieve a focused image.
- Provides wide, dynamic range and crisp, natural color reproduction in any lighting
- USB SM CMOS Camera with wide-angle software
- 5M CMOS Sensor (2592 x 1944)
- Easy Plug and Play USB 2.0 Interface
- Compact and Lightweight
- Versatile CS/CS-Lens mount
- Ideal for inspection, scientific image analysis, biomedical research

MightyCam Connect
- The MightyCam Connect is a new generation microscope camera, turning traditional microscopes into wireless inspection systems. The MightyCam Connect features a built-in IP hotspot that wirelessly broadcasts high quality images in real time to a free app available for iOS and Android devices.
- Live streaming, capture and record video from the Free Wi-Viewer app
- Hardware snapshot button for instantly saving image to all connected devices
- Wi-Fi signal broadcasts up to 10m
- Connect up to 10 iOS/Android devices; share real-time image simultaneously
- Active pixel technology for sharp images and accurate color reproduction

MightyCam VGA Color Camera 720p
- Avein's color VGA camera allows connectivity directly to a PC monitor. A PC is not required for image processing thus saving you bench space. In addition, a built-in 5D 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, and auto exposure.
- Compact 720p Color Camera with VGA output
- Live/Freeze Image Function; Cross Hair for quick gaging
- Produces crisp and clear color images in wide screen format
- Auto gain exposure setting to reduce glare
- On screen menu for quick access to camera settings

MightyCam 1080P HDMI Color Camera 2M w/ USB Flash Drive
- Avein's 1080P 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 bench 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.
- 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 sharp life like images with exceptional clarity

MightyCam HDMI Color Camera 2.0M w/USB Flash Drive & Built in Measurement Software
- Avein's HDMI Color Camera built in USB Flash Drive and measurement software, is a simple solution to those that need to inspect and measure with accuracy. A PC is not required for image processing and no software to install. Images with measurement data can be saved to the built in USB Flash Drive using the remote trigger (included). Built in software includes the following features: Edge Detection, Live/Freeze Image, Measure line, circle, radius, angle and parallel lines.
- Compact 720p Color Camera with VGA output
- Live/Freeze Image Function; Cross Hair for quick gaging
- Produces crisp and clear color images in wide screen format
- Auto gain exposure setting to reduce glare
- On screen menu for quick access to camera settings

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PRODUCT ID DESCRIPTION
26700-103-00 Macro Series Zoom 7000 PK M1
26700-103-10 Macro Series Zoom 7000 PK M2
26700-103-20 Macro Series Zoom 7000 PK M3
26700-104-00 MacroView All in One Scope
26700-104-20 Auxiliary Lens 2x for Macro All in One Scope
26700-104-40 Auxiliary Lens 4x for Macro All in One Scope
26100-243 Mighty Cam USB 5M CMOS Camera
26100-253 Mighty Cam Connect
26100-254 Mighty Cam VGA Color Camera 720p
26100-255 MightyCam 1080P HDMI Color Camera 2M w/ USB Flash Drive
26100-256 MightyCam 1080P HDMI Color Camera 2M w/ USB Flash Drive
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 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.

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.

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

ezMeasure® Software

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.

Grid Feature

Locate and compare with ease using multiple grid views.

Customize the Layout

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

Fill Mode Tool

Determines the image size: Fit-to-Fill the entire viewing area, Zoomed in, or Preserve the Original aspect ratio. Moving the Cursor with the mouse updates the coordinates.

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 ...

* Product ID Description:
  - 26100-406 ezMeasure® Software

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**Microscope & Video Accessories**

**Fiber Optic Illumination**

- **Dual Pipe Light Guide**
  - High quality fiber optic illumination
  - Accepts virtually any light guide with quick change adapters
  - Allows continuous dimming
  - Accepts polars
  - Dimension: 38.375mm (1.513”)
  - Inner diameter: 28.58mm (1.125”)

- **Focusable Lens on Each Pipe for Continuous Dimming**
  - Sleek, slim design provides versatility for individual light control
  - Ideal for high contrast silhouetted parts
  - Low profile does not inhibit placement of lens or object
  - Low temperature. Fiber optic illuminators are often referred to as "cold light" illuminators because they provide high intensity focused light without the heat typically associated with high intensity lamps.

- **ProLux LED Fiber Optic Illuminator**
  - High quality glass fiber
  - Provides 360° shadow free illumination
  - Large fiber bundle ensures maximum light transmission
  - Accepts polars
  - Comes with standard 15.875mm (5/8”) adapter
  - Inner diameter 38.64mm (1.513”)

- **ProSeries 40 LED Ring Light**
  - 40 powerful high precision aligned LEDs (white daylight)
  - 4 quadrant controller and auto voltage sensing power supply
  - Machined aluminum alloy housing for durability
  - Fully adjustable dimming control
  - 360° shadow free illumination

**LED Illumination**

- **Diffuse Axial LED Illuminator**
  - Evenly illuminates flat and shiny surfaces
  - Flicker free, energy efficient and eco friendly
  - 120 LEDs, 40 White, 40 Blue and 40 Red
  - 7 Step Brightness Control
  - Flicker Free
  - No color change with temperature

- **Ring Light LED with Integrated Focus Mount**
  - Integrated ring light with focus mount with coarse and fine focus
  - Eliminates chance of LED ring becoming loose from the microscope
  - Increases working distance
  - May be used with standard stand, illuminating arm stand or either single or double arm boom stand*
  - No color change with temperature

- **Protected Lens Cover**
  - Fits inside metal ring with threaded screw
  - Mounts to bottom of microscope body
  - Useful when soldering under the microscope
  - Protects lenses from damaging the microscope lenses

**Fiber Optic Ring Light**

- **Polarizer for Fiber Optic Ring Lights**
  - Helps reduce glare
  - Analyser sits in Counterbore
  - Low profile does not inhibit placement of lens or object viewed

- **Polarizer with Analyzer**
  - Polarizer with Analyzer is ideal for illuminating shiny or highly reflective parts
  - LED lights are flicker free, energy efficient and eco friendly
  - Continuous Brightness Control

**Fiber Optic Area Backlight**

- **Integrated LED ring light with focus mount**
  - Inner diameter 58.674mm (2.31”)
  - Comes with standard 15.875mm (5/8”) adapter
  - Large fiber bundle ensures maximum light transmission

**Ring Light - Video Lenses**

- **LED Ring Light with Polarizer**
  - Polarizer with Analyzer is ideal for illuminating shiny or highly reflective parts
  - LED lights are flicker free, energy efficient and eco friendly
  - Increases working distance

**Ring Light LED Triple Color**

- **LED Ring Light w/Brightness and Sector Control**
  - 60 High Intensity LED Lights
  - 7 Step Brightness Control
  - Continuous Brightness Control
  - Flicker Free
  - No color change with temperature

- **Ring Light LED w/Brightness and Sector Control**
  - 72 High Performance LED Lights
  - 7 Step Brightness Control
  - Continuous Brightness Control
  - Flicker Free
  - No color change with temperature

- **LED Ring Light w/Brightness and Sector Control**
  - 72 High Performance LED Lights
  - 7 Step Brightness Control
  - Continuous Brightness Control
  - Flicker Free
  - No color change with temperature
Microscope & Video Accessories

Stands & Focus Mounts

Pole Stand with Focus Mount

- Base dimensions: 210 x 280 x 300mm (8.26" x 11.02" x 11.81")
- Vertical post length: 136mm (5.35")
- Includes rack & pinion focus mount with fine focus adjustment
- Frosted, Black & White Stage Plates
- Safety clamp included

Product ID: 26800B-509

Pole Stand with Focus Mount with LED Illumination Top and Bottom

- Base dimensions: 210 x 280 x 400mm (8.26" x 11.02" x 15.75")
- Vertical post length: 215mm (8.46")
- Includes rack & pinion focus mount with fine focus adjustment
- Top & Bottom LED Illumination with dimmer control
- Frosted, Black & White Stage Plates
- Safety clamp included

Product ID: 26800B-510

Light Weight Articulating Arm Stand

- Allows great flexibility in positioning microscopes
- Light weight and compact design
- Easy height adjustment
- Aluminum and ABS Plastic construction

Product ID: 26800B-555

Microscope & Video Accessories

Stands & Focus Mounts

Diffuser for Glare Reduction

- Helps to reduce glare from shiny objects
- Made from durable plastic material
- Lighted for observing solder joints, metallic parts or shiny surfaces
- Designed for use with 26800B-512 (Stand PLED and 26800B-207) (Ring Light with Focus Mount)

Product ID: 26200B-2090F2

Heavy Duty Post Stand

- Base dimensions: 279 x 330 x 127mm (10.98" x 13" x 5.0"")
- Vertical post length: 406mm (15.98")
- Aluminum powder coated base
- 10 tapped holes for mounting x-y stages
- UNC bolt and safety clamp included
- Vertical post will accept focus mount (26800B-511) to which bodies SPZH, SFZ series, DSZ Series and NSW series can be mounted

Product ID: 26800B-570

Focus Mount

- Coarse & Fine Focus Adjustments
- Precision Rack & Pinion Mechanism with Tension Control
- 7mm diameter ring
- Will accept our SPZH, SFZ, DSZ and NSW series microscopes

Product ID: 26800B-517

E-Arm Focus Mount

- Rack & Pinion Mechanism with Coarse Focus Adjustment
- 50mm focusing distance in vertical direction
- 7mm diameter ring
- Mounts to any of our boom stands or articulating arm stands

Product ID: 26800B-518

Tiltable Arbor

- Designed to extend the working range of boom stands and articulating arm stands
- Allows tilting of microscope bodies to increase operator comfort

Product ID: 26800B-521

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

Product ID: 26800B-512 (Focus Mount)

Note: Pole stands are not suitable for SPZ Series microscopes with 0.5x lens as vertical post is not long enough to accommodate the working distance.

Product ID: 26800B-514 (E-Arm Focus Mount)

Product ID: 26800B-515 (Tiltable Arbor)

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Microscope & Video Accessories

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

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

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

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 20x20 0.5mm Squares
- 10x magnification power
- 20x20, 0.5mm squares reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Microscope Eyepiece 10x with 10x10 1mm Squares
- 10x magnification power
- 10x10, 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 10x100mm Scale Cross Hair
- 10x magnification power
- 10x100mm scale cross hair reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

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 Cross Hair
- 10x magnification power
- 5:100mm scale cross hair reticle
- Excellent for measurement
- High Eye-point Design
- 25mm Super Wide Field of View

Gliding Stage-Large
- Precision-machined bevel-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 10:100mm Scale
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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
### Magnifiers

#### Inspection Loupes, Magnifiers & Magniloupes

**Swing Out Inspection Loupe 10x Hex**
- Triplet lens system corrected for spherical and chromatic aberrations
- Produces a sharp and distortion free image
- 10x magnification

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
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<tr>
<td>26010</td>
<td>Swing Out Inspection Loupe 10x Hex</td>
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</table>

**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

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<th>Description</th>
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<tbody>
<tr>
<td>26041</td>
<td>Magniloupe w/Cushion</td>
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</tbody>
</table>

**Swing Out Inspection Loupe 20x**
- Made from optical glass
- 10x eye loupe with 1/2" working distance
- Chrome finish loupe easily folds up to protect lens
- Includes leather carrying case

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<tr>
<td>26011</td>
<td>Swing Out Inspection Loupe 20x</td>
</tr>
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</table>

**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

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<tr>
<td>26004</td>
<td>Eye Loupe 10x</td>
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</tbody>
</table>

**Magnifier 10x**
- Pre-focused dual lenses allow examination of objects close-up
- Transparent acrylic base permits ambient light to illuminate the object
- Powerful 10x magnification
- Ideal for model makers, stamp and coin collectors, and photography

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<tr>
<td>26051</td>
<td>Magnifier 10x</td>
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**Swing Out Inspection Loupe 20x**
- Made from optical glass
- 10x eye loupe with 1/2" working distance
- Chrome finish loupe easily folds up to protect lens
- Includes leather carrying case

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<tr>
<th>Product ID</th>
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<tr>
<td>26012</td>
<td>Swing Out Inspection Loupe 20x</td>
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</tbody>
</table>

**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

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<th>Product ID</th>
<th>Description</th>
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<tr>
<td>26034-LED</td>
<td>Eye Loupe 10x with LED light</td>
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</table>

**User Pairs Mighty Scope with a Low-Tech Companion**

Performance matters more than size, as our popular Mighty Scope Digital Microscope shows. We and our sales representatives hear manufacturing engineers praise the handheld scope’s convenience for intense inspection, image and video capture, and monitor viewing via USB or the Wi-Fi model. The latest field report comes from a user who called to describe how he previously used an eye loupe with a scale measuring reticle for parts check to assure that any defects are within tolerances.

Clively, he now pairs a newly purchased Mighty Scope 5M with his original tool to combine the loupe’s scale with our instrument for a close-up, measurable view illuminated with six LEDs. The Mighty Scope can capture that combined image for reference and sharing.

Visit Our Blog

www.aveninc.com

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### Eye Loupes & Pocket Microscopes

**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 2mm
- Operates on two AA batteries (not included)
- Useful for engineers, tool makers and quality control inspectors

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<th>Product ID</th>
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<tbody>
<tr>
<td>26800C-S51</td>
<td>Pocket Microscope 40x w/LED illumination</td>
</tr>
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</table>

**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 2mm
- Operates on two AA batteries (not included)
- Useful for engineers, tool makers and quality control inspectors

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<th>Product ID</th>
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<tr>
<td>26800C-S52</td>
<td>Pocket Microscope 40x w/LED illumination</td>
</tr>
</tbody>
</table>

**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

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<th>Product ID</th>
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<tr>
<td>26800C-S54</td>
<td>Pocket Microscope 60-100x w/LED illumination</td>
</tr>
</tbody>
</table>

**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

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<tbody>
<tr>
<td>26800C-S50</td>
<td>Pen Type Microscope 50x w/LED Light</td>
</tr>
</tbody>
</table>

**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

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<th>Product ID</th>
<th>Description</th>
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<tbody>
<tr>
<td>26800C-S51</td>
<td>Pen Type Microscope 25x w/LED Light</td>
</tr>
</tbody>
</table>

**Pocket Microscope 25x w/LED Light & Scale**
- Perfect "pen-type" microscope with 25x magnification and includes reticle scale
- 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

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<tbody>
<tr>
<td>26800C-S52</td>
<td>Pen Type Microscope 25x w/LED Light &amp; Scale</td>
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</tbody>
</table>

**Pocket Microscope 50x w/LED Light & Scale**
- Perfect "pen-type" microscope with 50x magnification and includes reticle scale
- 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

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>26800C-S53</td>
<td>Pen Type Microscope 50x w/LED Light &amp; Scale</td>
</tr>
</tbody>
</table>

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**Pen Type Microscope Scale**

Etched into the eyepiece with graduations of 0.05mm

<table>
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<td>26800C-S52 &amp; 26800C-S53</td>
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</tbody>
</table>

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32 33
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

Product ID Description
26106 OptiVisor Headband Magnifier - 3.5x
26105 OptiVisor Headband Magnifier - 2.75x
26103 OptiVisor Headband Magnifier - 2x
26101 OptiVisor Headband Magnifier - 1.5x

OptiSight Headband Magnifier

- Visor can be worn over prescription or safety glasses
- Durable high-strength plastic
- Interchangeable lenses 1.75x, 2x, 2.5x
- Visor design shields out unwanted glare

Product ID Description
26310 OptiSight Headband Magnifier - 1.75x
26315 OptiSight Headband Magnifier - 2x
26320 OptiSight Headband Magnifier - 2.5x
26325 OptiSight Headband Magnifier - 3x

Replacement Lenses

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

Product ID Description
26185 Replacement Lens #1 - 1.5x
26187 Replacement Lens #2 - 1.75x
26190 Replacement Lens #3 - 2x
26192 Replacement Lens #4 - 2.5x
26195 Replacement Lens #5 - 3x

OptiVue Headband Magnifier - 2.5x

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

Product ID Description
26320 OptiVue Headband Magnifier - 2x
26325 OptiVue Headband Magnifier - 2.5x

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

Product ID Description
26113 Auxiliary Lens - 2.5x

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

**ProVue Slim & Touch LED 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 coating
  - 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
  - 32” spring balanced arm stays put in any position
  - Heavy-duty metal mounting clamp with 89mm (3.5”) opening
  - Built-in metal grips for quick and easy positioning
  - Lens can be easily removed and replaced when necessary
  - LED lights are rated for over 20,000 hours of use
  - Unit operates at 115 to 240V AC
  - Features Brightness Adjustment (max: 1100lm)
  - LED lights are rated for over 20,000 hours of use
  - Same features as our 26505-LED
  - Durable safe mar-resistant plastic housing
  - Color temperature ranges from 3500K-6500K
  - Two 9W Fluorescent bulbs operating a 6400K
  - 32” spring balanced arm stays put in any position
  - 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 Lamps & Accessories**

- **Mighty Vue Magnifying Lamp-LED**
  - Durable safe mar-resistant plastic housing
  - Large 7” x 6” 1.75x (3 diopter) lens
  - 36 high-powered energy efficient SMD LEDs provide shadow-free illumination
  - 32” spring balanced arm stays put in any position
  - 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 with Rolling Stand**
  - Same features as our 26505-LED except mounted on our heavy duty floor stand with casters

- **Mighty Vue Pro Magnifying Lamp**
  - Available in two configurations with different magnifications
  - Large 7” x 6” lens
  - Durable ESD safe mar-resistant plastic housing
  - 32” 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
  - Two 9W Fluorescent bulbs operating a 6400K
  - 36 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
  - Fits Mighty Vue 26505-ESD and 26505-ESD-5D magnifying lamps
  - Durable mar-resistant plastic housing
  - Color temperature 6400K
  - Two 9W Fluorescent bulbs operating a 6400K
  - 32” spring balanced arm stays put in any position
  - 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
  - Features Brightness Adjustment (max: 1100lm)
  - Unit operates at 115 VAC

- **Mighty Vue Magnifying Lamps**
  - ProVue Slim & Touch LED Magnifying Lamps
  - Mighty Vue Lamps & Accessories
  - Register online to receive updates on the newest products and for the latest specials from Aven.
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

Product ID Description
26520-SB Sirrus Task Light LED w/ Swivel Head, 500mm Flex Arm & Mounting Clamp

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

Product ID Description
26527 Sirrus Task Light LED High Intensity Fixed Focus with 500mm Flex Arm and Mounting Clamp

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 LED
- Cool operating temperature
- Exceptionally long LED element life (minimum 20,000 hours)
- Ideal for assembly, workshop or office applications

Product ID Description
26528 Sirrus LED Lamp w/ Aluminum Head, 500mm Flex Arm & Mounting Clamp

Sirrus 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

Product ID Description
26520-MB Sirrus Magnetic Base

Machine Tool LED Task Light with 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

Product ID Description
26530-LED Machine Tool LED Task Light with Magnetic Base & 18" Flexible Arm

Machine Tool LED Task Light Compact with 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

Product ID Description
26531-LED Machine Tool LED Task Light Compact with 18" Flexible Arm

Machine Tool LED Task Light Domed with 36” 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

Product ID Description
26532-LED Machine Tool LED Task Light Domed with 36" Flexible Arm

Machine Tool LED Task Light Domed 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

Product ID Description
26533-LED Machine Tool LED Task Light Domed with 23" Flexible Arm

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Work Lights
Machine Tool LED Task Lamps & Accessories

Hand Tools
Alignment Tools & Screwdrivers

Ceramic Alignment Screwdrivers
- Anti Static, non magnetic, non inductive heat resistant ceramic tips
- Heat resistant up to 1292°F (700°C)
- Blades made from Zirconia ceramic
- Outlasts metal or plastic tip tools
- No worry current loss in high frequency

Product ID Description Blade Tip Size Overall Length
13225 Ceramic Alignment Screwdriver Phillips FLAT 7 1/2" 7-1/2" 7-1/2"
13226 Ceramic Alignment Screwdriver Slotted 1.2 mm 17-1/2" 17-1/2" 17-1/2"
13227 Ceramic Alignment Screwdriver Phillips & Slotted 1.2 & 1.5 mm 17-1/2" 17-1/2" 17-1/2"

Precision Screwdriver - 6-Piece Set
- Precisely machined hardened black tips for durability and exact fit
- Screwdriver blades manufactured from chrome molybdenum steel for extra strength
- Ergonomically designed bi-component handle with swivel cap for extra comfort and grip

Product ID Description Blade Size Overall Length
13901 Precision Screwdriver Phillips No. 0 1/2" 3-1/2" 3-1/2"
13902 Precision Screwdriver Phillips No. 00 1/2" 3-1/2" 3-1/2"
13903 Precision Screwdriver Phillips No. 000 1/2" 3-1/2" 3-1/2"
13904 Precision Screwdriver Phillips No. 1 1/2" 3-1/2" 3-1/2"
13905 Precision Screwdriver Phillips No. 2 1/2" 3-1/2" 3-1/2"
13906 Precision Screwdriver Phillips No. 3 1/2" 3-1/2" 3-1/2"
13907 Precision Screwdriver Phillips No. 4 1/2" 3-1/2" 3-1/2"
13908 Precision Screwdriver Phillips No. 5 1/2" 3-1/2" 3-1/2"

Precision Screwdriver - 8-Piece Set
- Ergonomically designed handle with swivel head cap for precise control and comfort
- Two component handle provides soft touch and non-slip surface
- Made from environmentally friendly and recyclable material
- Heat treated high grade allow steel blades with blackened tips

Product ID Description Blade Size Overall Length
13715 Precision Screwdriver - 8-Piece Set Phillips No. 0 1/2" 4-1/2" 4-1/2"
13716 Precision Screwdriver - 8-Piece Set Phillips No. 00 1/2" 4-1/2" 4-1/2"
13717 Precision Screwdriver - 8-Piece Set Phillips No. 000 1/2" 4-1/2" 4-1/2"
13718 Precision Screwdriver - 8-Piece Set Phillips No. 1 1/2" 4-1/2" 4-1/2"
13719 Precision Screwdriver - 8-Piece Set Phillips No. 2 1/2" 4-1/2" 4-1/2"
13720 Precision Screwdriver - 8-Piece Set Phillips No. 3 1/2" 4-1/2" 4-1/2"
13721 Precision Screwdriver - 8-Piece Set Phillips No. 4 1/2" 4-1/2" 4-1/2"

Precision Nutdriver - M3.0 72mm 172mm
- Made from environmentally friendly and recyclable materials
- Heat treated high grade alloy steel blades with blackened tips

Product ID Description Blade Size Overall Length
13930 Precision Nutdriver - M3.0 72mm 172mm 1/16" 1/16" 1/16"

Slide Rulers

Inch Fraction Rule - 12" Imperial Format
- Laser etched for extreme clarity
- Precisely metric ruled for easy conversion

Product ID Description Blade Size Overall Length
12020 Inch Fraction Rule - 12" Imperial Format 1/16" 1/16" 1/16"
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-notch for holding wire
- Grip remains consistently parallel along length of jaws 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 parts
- 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 parts

Pliers Set Stainless Steel
- Mirror polished stainless steel provides excellent corrosion resistance
- Packaged in a Lacquertine roll-up pouch
- Set includes: 6" long-nose pliers, 6" slip-joint pliers, 8" wire-cutting pliers, 6-1/2" groove-joint pliers, with flat jaws, and an 8" combination pliers

Pair of 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 sliding 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 sliding locking mechanism enables easy one-handed operation
- Trigger release handles

Slip Joint Pliers Stainless Steel 6.5"
- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent rust resistance
- All purpose piers with serrated jaws, built-in wire cutter and pipe grip

Slip Joint Pliers w/Plastic Grips 6.5"
- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent rust resistance
- All purpose piers with serrated jaws, built-in wire cutter and pipe grip
- Plastic grips provide extra comfort
Hand Tools
Crimping Tools & Scissors

4-1/2" Slim Blade Straight Scissor
- Fully polished stainless steel provides excellent corrosion resistance
- Fine beaks for precise and delicate work
- 3-1/4" durable stainless steel blade

11014

4-1/2" Precision Scissor
- Fully polished stainless steel provides excellent corrosion resistance
- 3-1/4" durable stainless steel blade

11016

7" All Purpose Standard Scissor
- Fully polished stainless steel provides excellent corrosion resistance
- 3-1/4" durable stainless steel blade

11022

8" All Purpose Standard Scissor
- Fully polished stainless steel provides excellent corrosion resistance
- 3-1/4" durable stainless steel blade

11023

5" Electrician Scissor
- Fully polished stainless steel provides excellent corrosion resistance
- Serrated jaws for secure grip
- Angled to provide maximum view
- Stainless steel construction
- Designed to securely retrieve and hold small parts

11012

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Hand Tools
Hemostats & Probes

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

Product ID Description
12031 Probe Straight Needle Point

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

Product ID Description
12032 Probe Bent Needle Point

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

Product ID Description
12034 Probe Curved Needle Point

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

Product ID Description
12035 Probe Double Sided Scaper Bent Tips

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

Product ID Description
12037 Probe Double Sided Scaper Angled/Curved

Probe Double End Bent/Curved
- Made from 400 series stainless steel
- Sharp tip for precision work around delicate circuits and components

Product ID Description
12039 Probe Double End Bent/Curved

Stainless Steel Probe 4-piece Set
- Made from 400 series stainless steel
- Set of four contains: Straight, Bent, Curved and Angled Models

Product ID Description
20210 Stainless Steel Probe 4-piece Set

Alligator Clamp
- Serrated jaws for secure grip
- Angled to provide maximum view
- Stainless steel construction
- Designed to securely retrieve and hold small parts

Product ID Description Jaw Length Cutting
12031 Alligator Clamp 1-1/2" 0.5" 0.25"
12032 Alligator Clamp 1-1/4" 0.5" 0.25"

Hemostat - Straight
- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent corrosion resistance
- Serrated jaws hold objects firmly without cutting them
- Designed for intricate work in tight spaces
- Ratchet lock in handle allows varying gripping pressure

Product ID Description Jaw Length
12001 Hemostat - Straight 1.00mm
12011 Hemostat - Straight 20.4mm
12012 Hemostat - Straight w/Plastic Coated Handle 20.4mm
12013 Hemostat - Straight w/Plastic Coated Handle 25.4mm
12014 Hemostat - Straight w/Plastic Coated Handle 25.4mm
12015 Hemostat - Straight 31.75mm
12016 Hemostat - Straight 45.72mm
12017 Hemostat - Straight 63.5mm
12018 Hemostat - Straight 63.5mm
12019 Hemostat - Straight 63.5mm
12020 Hemostat - Straight 63.5mm

Hemostat - Curved
- Manufactured from 400 series stainless steel
- Mirror polished to provide excellent corrosion resistance
- Serrated jaws hold objects firmly without cutting them
- Designed for intricate work in tight spaces
- Ratchet lock in handle allows varying gripping pressure

Product ID Description Jaw Length
12001 Hemostat - Curved 1.00mm
12011 Hemostat - Curved 20.4mm
12012 Hemostat - Curved w/Plastic Coated Handle 20.4mm
12013 Hemostat - Curved w/Plastic Coated Handle 25.4mm
12014 Hemostat - Curved w/Plastic Coated Handle 25.4mm
12015 Hemostat - Curved w/Plastic Coated Handle 25.4mm
12016 Hemostat - Curved w/Plastic Coated Handle 25.4mm
12017 Hemostat - Curved w/Plastic Coated Handle 25.4mm
12018 Hemostat - Curved w/Plastic Coated Handle 25.4mm
12019 Hemostat - Curved w/Plastic Coated Handle 25.4mm
12020 Hemostat - Curved w/Plastic Coated Handle 25.4mm

Crimping Tool for Wire Ferrules
- For use with 22 to 6 AWG wire
- Replaceable dies
- Built-in ratchet applies correct pressure to ensure a complete crimp
- Durable steel construction and hardened dies to ensure reliability and longevity
- ABS grips make this tool comfortable and easy to use

Product ID Description
10179 Crimping Tool for Wire Ferrules 6 to 10 AWG
10178 Crimping Tool for Wire Ferrules 12 to 22 AWG
Technik K-8 Flat Handle Light Duty Knife
- 5-inch comfortable soft grip handle
- 4-point 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-8 Grip-On Non-Roll Soft Handle Knife
- 4-3/4-inch aluminum handle
- 4-point roll chuck for easy blade release
- Includes a super sharp #11 blade and a high impact safety cap
- Ideal for precision cutting, forming and stripping of paper, plastic, wood, cloth and film
- Fits replacement blades #10, 11, 16, 17

Technik K-1 Precision Light Duty Knife
- 4.375-inch aluminum handle
- 4-point roll chuck for easy blade release
- Includes a super sharp #22 blade and a high impact safety cap
- Ideal for precision cutting, trimming and stripping paper, plastic, wood, cloth and film
- Fits replacement blades #18, 19, 22, 23, 24, 25, 26, 27, 28

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

Technik K-5 Heavy Duty Knife
- 7/16-inch aluminum handle
- 4-point roll chuck for easy blade release
- Includes a #9 sharp angled blade and a snug fitting plastic safety cap
- Ideal for precision cutting, trimming and stripping paper, plastic, wood and other items
- Fits replacement blades #18, 19, 22, 23, 24, 25, 26, 27, 28

Technik Deluxe Knife Set
- Contains K1, K2, K5 handles
- 13 assorted blades
- Includes a Teflon covered magnetic strip to help in holding the blades securely
- Organized in convenient plastic tray
- Fluted replacement blades K-8, K-13 Replacement Blade (100/pk)

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 paper, plastic, wood and other items
- Fits replacement blades 44226, K-10
- Replacement Blade (100/pk)

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

Technik K-13 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-piece chuck for tight secure blade housing
- Comfortably ridged tapered plastic handle
- Fits replacement blades #10, 11, 16, 17
- Super sharp #11 blade
- 4-3/4-inch aluminum handle
- 5-inch comfortable soft grip handle
- Fluted replacement blades K-13 Replacement Blade (100/pk)
- Replacement Blade (100/pk)

Technik K-50 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-piece chuck for tight secure blade housing
- Comfortably ridged tapered plastic handle
- Fits replacement blades #10, 11, 16, 17
- Super sharp #11 blade
- 4-3/4-inch aluminum handle
- 5-inch comfortable soft grip handle
- Fluted replacement blades K-13 Replacement Blade (100/pk)
- Replacement Blade (100/pk)

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

Technik Knife Set
- Contains K1, K2, K5 handles
- 13 assorted blades
- Includes a Teflon covered magnetic strip to help in holding the blades securely
- Organized in convenient plastic tray
- Fluted replacement blades K-8, K-13 Replacement Blade (100/pk)
- Replacement Blade (100/pk)

Scalpel Blade Handle Plastic #3
- #3 size handle is designed to fit blade styles #10, 11, 12, 15
- Makes loading blades easy
- Perfectly balanced and precision machined plastic
- Fluted finger grips

Scalpel Blade Handle Stainless Steel #3
- #3 size handle is designed to fit blade styles #10, 11, 12, 15
- Makes loading blades easy
- Perfectly balanced and precision machined stainless steel
- Fluted finger grips

Scalpel Blade Handle Plastic #4
- #4 size handle is specifically designed to fit #23 blade style
- Makes loading blades easy
- Perfectly balanced and precision machined plastic
- Fluted finger grips

Scalpel Blade Handle Stainless Steel #4
- #4 size handle is specifically designed to fit #23 blade style
- Makes loading blades easy
- Perfectly balanced and precision machined stainless steel
- Fluted finger grips

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

Replacement Blades
- Snap-off replacement blades
- Replacement blade for Technik K-8, Technik K-16, and Technik K-13 knives
- Ideal for home, office, or industrial use cutting paper, plastic, wood and other items

K-8, K-10 & K-13 Replacement Blades
- #2, #10, #11, #16, #17, #18
- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
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- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
- Replacement Blade (100/pk)
Accu-Cut Oval Head Cutter
- Extra large oval head for cutting heavy duty wire
- ESD Safe Ergonomic Grips for superior comfort
- Designed to be durable

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

Accu-Cut Oval Relief Head Cutter
- Miniature oval head for fine cutting work
- ESD Safe Ergonomic Grips for superior comfort
- Designed to be durable

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

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

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

Accu-Cut Mini Tapered Relief Head Cutter
- Miniature tapered head with relief for exceptionally fine cutting work
- ESD Safe Ergonomic Grips for superior comfort
- Designed to be durable

Oval Head Cutter 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

Oval Head Cutter Large 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

Mini Oval Head Cutter 110mm (4.3”)
- 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

Tapered Head Cutter 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

Oblique Head Cutter 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

Long Nose Pliers w/cutter 120.5mm (4.75”)
- 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

End Cutter 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

NOTE: Product IDs with * included in 10600A Precision Stainless Steel Pliers Set.
**Precision Cutters & Pliers**

**Techni-Stainless Steel Pliers and Cutters**

**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

**Round Nose Pliers 114mm - 127mm (4.5 - 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

**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: Techni-Stainless Steel Pliers & Cutters - 10010, 10310, 10314, 10115, 10211, 10212

**Niptec Cutters & Parallel Action Pliers**

**Niptec TR 5000 Cutter**
- Durable 5mm thick blades
- Compact ergonomic design
- Semi-flush cutting edge
- ESD safe grips make tool comfortable and easy to use
  - For use on copper wire up to 12 AWG
  - Small cutting head angled at 21° for access into tight places

**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
- Flush cutting edge
- Narrow cutting head for access into dense areas

**Niptec TR 25-E Cutter**
- For use on copper wire up to 19 AWG
- Blue non-slip grips make tool comfortable and easy to use
- Compact ergonomic design
- Flush cutting edge
- Narrow cutting head for access into dense areas

**Niptec TR 20M Cutter**
- ESD safe grips make tool comfortable and easy to use
- Compact ergonomic design
- Semi-flush cutting edge
- Small cutting head angled at 48° for access into tight places

**Niptec TR 20M Cutters**
- ESD safe grips make tool comfortable and easy to use
- Compact ergonomic design
- Semi-flush cutting edge
- Small cutting head angled at 48° for access into tight places

**Diagonal Cutter Compound Action 6.5"**
- Compound lever action handles give you more power for cutting and gripping
- Compound lever action handles require less force when cutting
- ESD safe grips make tool comfortable and easy to use
- Narrow cutting head for access into dense areas

**Diagonal Cutter Compound Action 6.5"**
- Compound lever action handles give you more power for cutting and gripping
- ESD safe grips make tool comfortable and easy to use
- Narrow cutting head for access into dense areas

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

Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
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. (Table 1)

Special Coatings (Available on non-magnetic stainless steel only)

* TE - Teflon Superior anti-scratch, non-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.

<table>
<thead>
<tr>
<th>Material</th>
<th>Tip Hardness</th>
<th>Magnesium</th>
<th>Corrosion Resistance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium</td>
<td>Excellent</td>
<td>Never</td>
<td>Excellent</td>
</tr>
<tr>
<td>Stainless Steel</td>
<td>Very Good</td>
<td>Some</td>
<td>Good</td>
</tr>
<tr>
<td>Stainless Steel, Anti-magnetic, Anti-acid</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 finisher.

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.

Carbon: 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. Every tweezers is manually finished and tested for maximum precision. Chemical resistant and heat resistant up to 250°C.

### Choosing the Correct Tweezer

#### Style AA Tweezers

- **For general assembly, very strong and precise tips with fine finish. Available in different materials and quality grades. Length: 4-3/4” (130mm)**

#### 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)**

#### Style MM Tweezers

- **General purpose, tweezers with hardened, precision tips and fine finish. Available in different materials and quality grades. Length: 5-1/2” (140mm)**

#### Style 00 Tweezers

- **Flat edges, heavy duty strong blades tapering to a regular strong point. Slightly shorter than 00. Length: 4-1/2” (115mm)**

#### Style 0D Tweezers

- **Flat edges, heavy duty strong blades tapering to a regular strong point. Tweezers feature finger grips. Available in different materials and quality grades. Length: 4-3/4” (120mm)**

#### 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)**

#### Style OA Tweezers

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

#### Style DC 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 1]

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>18013BR</td>
<td>Accu-Tek Tweezers</td>
<td>Brass</td>
</tr>
<tr>
<td>18015SA</td>
<td>Technik Tweezers</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>18016</td>
<td>Aven Tweezers</td>
<td>Carbon Steel, Nickel/Chrome Plated</td>
</tr>
<tr>
<td>18017SS</td>
<td>Accu-Tek AA (Swiss Made)</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td>18018SS</td>
<td>Aven Tweezers</td>
<td>Titanium</td>
</tr>
<tr>
<td>18019SS</td>
<td>3.2 Pt Tweezers</td>
<td>Stainless Steel</td>
</tr>
</tbody>
</table>

[Table 2]

<table>
<thead>
<tr>
<th>Material</th>
<th>Tip Hardness</th>
<th>Magnesium</th>
<th>Corrosion Resistance</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>Stainless Steel</td>
<td>Very Good</td>
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<tr>
<td>Stainless Steel, Anti-magnetic, Anti-acid</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>

### Quality Grades (Table 1)

<table>
<thead>
<tr>
<th>Accu-Tek</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technik</td>
<td>Finely crafted tweezers. Anti-glove finish to reduce eye strain. Hand finished points for accuracy. Recommended for micro electronics and precision applications.</td>
</tr>
</tbody>
</table>

AVEN, INC. | 4330 VARSITY DRIVE | ANN ARBOR, MI 48110
**Tweezers**

**Style 2AB Tweezers**

Style 2AB Tweezers feature curved round tips, ideal for handling delicate or small parts. Tip angle facilitates wafer tray loading. Length: 4-3/4" (120mm)

**Product ID** | Description | Material |
--- | --- | --- |
18010SAU | Accu-Tek Tweezers 2A-SA Stainless Steel | Stainless Steel |
18010SA | Aven Tweezers 2A-SA Stainless Steel | Stainless Steel |
18010SAU | Aven Tweezers 2A-SA Stainless Steel | Stainless Steel |
18010TT | Aven Titanium Tweezers 2A Titanium | Titanium |

**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)

**Product ID** | Description | Material |
--- | --- | --- |
18015SAU | Accu-Tek Tweezers 3A-SA Stainless Steel | Stainless Steel |
18015SA | Aven Tweezers 3A-SA Stainless Steel | Stainless Steel |
18015CS | Aven Tweezers 3-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18015TS | Aven Tweezers 3C (Swiss Made) Titanium | Titanium |
18015TT | Aven Titanium Tweezers 3 Titanium | Titanium |

**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: 4-1/2" (115mm)

**Product ID** | Description | Material |
--- | --- | --- |
18013SAU | Accu-Tek Tweezers 2C-SA Stainless Steel | Stainless Steel |
18013SA | Aven Tweezers 2C-SA Stainless Steel | Stainless Steel |
18013CS | Aven Tweezers 2-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18013TS | Aven Tweezers 2C (Swiss Made) Titanium | Titanium |
18013TT | Aven Titanium Tweezers 2 Titanium | Titanium |

**Style 2A Flat Tips**

Straight Flat Tips. Provides large flat gripping surface. Available in different materials and quality grades. Length: 4-1/4" (110mm)

**Product ID** | Description | Material |
--- | --- | --- |
18009AU | Acu-Tek Tweezers 2A-SA Stainless Steel | Stainless Steel |
18009A | Aven Tweezers 2A-SA Stainless Steel | Stainless Steel |
18009AUA | Aven Tweezers 2A-SA Stainless Steel | Stainless Steel |
18009TS | Aven Tweezers 2-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18009TT | Aven Titanium Tweezers 2 Titanium | Titanium |

**Style 3CB Tweezers**

Long and narrow bent tip tweezers. Provides extended reach and access to confined areas. Length: 4-1/4" (110mm)

**Product ID** | Description | Material |
--- | --- | --- |
18022AU | Acu-Tek Tweezers 3C-SA Stainless Steel | Stainless Steel |
18022A | Aven Tweezers 3C-SA Stainless Steel | Stainless Steel |
18022CS | Aven Tweezers 3C-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18022TS | Aven Tweezers 3C (Swiss Made) Titanium | Titanium |
18022TT | Aven Titanium Tweezers 3 Titanium | Titanium |

**Style 3F Tweezers**

Tips touch over 3mm for holding tiny wires. Length: 4-1/4" (110mm)

**Product ID** | Description | Material |
--- | --- | --- |
18021AU | Acu-Tek Tweezers 3F-SA Stainless Steel | Stainless Steel |
18021A | Aven Tweezers 3F-SA Stainless Steel | Stainless Steel |
18021CS | Aven Tweezers 3F-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18021TS | Aven Tweezers 3F (Swiss Made) Titanium | Titanium |
18021TT | Aven Titanium Tweezers 3 Titanium | Titanium |

**Style 5A Tweezers**

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

**Product ID** | Description | Material |
--- | --- | --- |
18034AU | Acu-Tek Tweezers 5A-SA Stainless Steel | Stainless Steel |
18034A | Aven Tweezers 5A-SA Stainless Steel | Stainless Steel |
18034CS | Aven Tweezers 5A-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18034TP | Aven Titanium Tweezers 5A Titanium | Titanium |
18034TS | Aven Tweezers 5A (Swiss Made) Titanium | Titanium |
18034TT | Aven Titanium Tweezers 5 Titanium | Titanium |

**Style 5B Tweezers**

Features super micro high precision bent tips provide maximum visibility. Available in different materials and quality grades. Length: 4-1/4" (110mm)

**Product ID** | Description | Material |
--- | --- | --- |
18037AU | Acu-Tek Tweezers 5B-SA Stainless Steel | Stainless Steel |
18037A | Aven Tweezers 5B-SA Stainless Steel | Stainless Steel |
18037CS | Aven Tweezers 5-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18037TT | Aven Titanium Tweezers 5 Titanium | Titanium |
18037TS | Aven Tweezers 5B (Swiss Made) Titanium | Titanium |
18037TT | Aven Titanium Tweezers 5 Stainless Steel | Stainless Steel |

**Style 6 Tweezers**

Angled fine tip is designed to allow greater access into tight areas. Available in different materials and quality grades. Length: 4-3/4" (120mm)

**Product ID** | Description | Material |
--- | --- | --- |
18040AU | Acu-Tek Tweezers 6A-SA Stainless Steel | Stainless Steel |
18040A | Aven Tweezers 6A-SA Stainless Steel | Stainless Steel |
18040CS | Aven Tweezers 6-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18040TT | Aven Titanium Tweezers 6 Titanium | Titanium |
18040TS | Aven Tweezers 6A (Swiss Made) Stainless Steel | Stainless Steel |
18040TT | Aven Titanium Tweezers 6 Stainless Steel | Titanium |

**Style 6A Flat Tips**

Cameo, sharp point tweezers for bending and handling of small wires and parts. Available in different materials and quality grades. Length: 4-3/4" (120mm)

**Product ID** | Description | Material |
--- | --- | --- |
18003AU | Acu-Tek Tweezers 6A-SA Stainless Steel | Stainless Steel |
18003A | Aven Tweezers 6A-SA Stainless Steel | Stainless Steel |
18003CS | Aven Tweezers 6-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18003TS | Aven Tweezers 6C (Swiss Made) Titanium | Titanium |
18003TT | Aven Titanium Tweezers 6 Titanium | Titanium |

**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: 4-1/4" (115mm)

**Product ID** | Description | Material |
--- | --- | --- |
18046AU | Acu-Tek Tweezers 7-SA Stainless Steel | Stainless Steel |
18046A | Aven Tweezers 7-SA Stainless Steel | Stainless Steel |
18046CS | Aven Tweezers 7-CS Carbon Steel, Nickel/Chrome Plated | Carbon Steel, Nickel/Chrome Plated |
18046TS | Aven Tweezers 7C (Swiss Made) Titanium | Titanium |
18046TT | Aven Titanium Tweezers 7 Titanium | Titanium |
18046TS | Aven Tweezers 7A-SA Stainless Steel | Stainless Steel |
18046TS | Aven Tweezers 7A-SA Stainless Steel | Stainless Steel |

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

Tel: 734.973.0099 | Fax: 734.973.0097 | www.aveninc.com
## Tweezers
### Style 7B Tweezers
Similar to style 7, pattern 7B tweezers feature serrated tips and have been designed with curved, super fine points for easy assembly work, allowing hand to rest on bench. Length: 4-1/2” (115mm)

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>18476USA</td>
<td>7B Style Tweezers 7B-SA Stainless Steel</td>
<td>7B-SA</td>
</tr>
</tbody>
</table>

### Style 15AWG Tweezers
Designed for cutting hairpins and electronic component wires. The blades, made from 400 series stainless steel (indicated for durability, feature hardened tips. Length: 4-1/2” (115mm)

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>18475USA</td>
<td>15AWG Style Tweezers 15AWG-SA Stainless Steel</td>
<td>15AWG-SA</td>
</tr>
</tbody>
</table>

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

### Style 2B 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 nor contaminate materials when used in corrosive environments.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18514</td>
<td>Plastic Tweezers 2B Curved, Flat Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18517</td>
<td>Plastic Tweezers 2C Fine, Straight Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### 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.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18523</td>
<td>Plastic Tweezers 7 Fine, Curved Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### Titanium 6-Piece Precision Tweezer Set
- Aven’s most popular titanium style in a handy pouch
- Titanium tweezers do not shed particles like the stainless steel tweezers
- Light weight and high strength material
- Contains 2A, 3c, OO, AA, 5 and 7 styles
- Extremely useful when handling magnetic materials

### Style 35 Plastic Tweezers
Straight with flat 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.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18526</td>
<td>Plastic Tweezers 35 Straight, Flat Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### 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, these tweezers provide very high rigidity, excellent tensile and flexural strength and have good chemical resistance to oils, grease, fuels, and non-polar solvents. Length: 5” (1200mm)

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18702</td>
<td>Plastic Tweezers 3-CF Curved, Flat Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### Style 70E ESD 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 nor contaminate materials when used in corrosive environments.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18531</td>
<td>Plastic Tweezers 70E Direct, Flat Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### Style 70A 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.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18534</td>
<td>ESD Plastic Tweezers 70A Fine, Straight Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### Style 707 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.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18535</td>
<td>ESD Plastic Tweezers 707 Fine Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### Style 710 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.

<table>
<thead>
<tr>
<th>Product ID</th>
<th>Description</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>18536</td>
<td>ESD Plastic Tweezers 710A Curved, Flat Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
</tbody>
</table>

### Style 760 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.

<table>
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<tr>
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<th>Description</th>
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<tr>
<td>18532</td>
<td>ESD Plastic Tweezers 760 Very Fine, Tapered Tips</td>
<td>4-1/2&quot; (115mm)</td>
</tr>
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Victor Ceramic Tweezers
- Low thermal conductivity and high thermal shock resistance
- Ceramic tweezers are used in applications where extreme heat is present
- Highly resistant to all strong acids except hydrofluoric acid
- Chemically and electrically inert
- Solder will not adhere to surface

Accu-Tek Ceramic Tweezers
- Low thermal conductivity and high thermal shock resistance
- 100% non-magnetic, non-rusting and non-static
- Highly resistant to all strong acids except hydrofluoric acid
- Solder will not adhere to surface
- Will hold tip geometry better than metal
- Swiss made stainless steel handles

Aven College Forceps w/Lock
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Curved tip is helpful when working in confined spaces

Aven College Forceps w/Alignment Pin
- Stainless steel finish provides excellent corrosion resistance
- Alignment pin keeps tips aligned under high stress applications
- Inside and outside serrations provide better gripping and handling

Aven Forceps w/Plastic Coated Tips
- Stainless steel finish provides excellent corrosion resistance
- Plastic coated tips provide chemical resistance
- Serrated handles provide better gripping

Aven Fiber Grip Tweezers
- Polished stainless steel tips actively hold without contaminating heat
- Heat-resistant fiber grips protect your hands from heat while soldering
- Ideal for soldering, bending, separating and removing small items
- Cross-lock mechanism opens when pressed

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

Aven Forceps w/Straight Serrated Tips
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Long, straight tip is helpful when working in confined spaces
- Serrated handles provide better gripping

Aven 3" Sharp Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Medium-chisel, serrated tip is helpful when working in confined spaces
- Serrated handles provide better gripping

Aven General Purpose Flat Tip Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending and separating small items

Victor Ceramic Tweezers
- Ideal for bending, separating and removing small items
- Curved tip is helpful when working in confined spaces

Aven Blunt Tip Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Blunt tips are useful for handling larger items

Aven 4 3/8" Spade Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Spade tip is helpful when working in confined spaces
- Serrated handles provide better gripping

Aven Offset Spade Tweezers
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Serrated handles provide better gripping

Aven Toothed Tissue Forceps
- Stainless steel finish provides excellent corrosion resistance
- Ideal for bending, separating and removing small items
- Toothed models are ideal for handling the various thicknesses of tissues

Quick-Test Auto-Scanning Tweezers
- Measures AC-DC voltage, resistance, continuity & diode test
- Auto Scanning Model/Auto range
- Testing pins gold plated to reduce resistance and prevent rust
- Uses Lithium battery CR2032, included
- Will automatically identify whether component is a resistor, capacitor or diode

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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

Product ID Description
17510 Soldering Iron 80W with 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

Product ID Description
17502 Soldering Iron 40W with Fine Tip

Lead Free Solder Pot 100W
- Heating element liquefies solder quickly and provides excellent thermal stability
- Crucible is made from stainless steel with titanium plating, featuring corrosion resistance and prolonged service life
- Suitable for melting solder, plastic, resin and more
- Ideal for trimming ends of stranded wire leads, pre-tinning small electrical parts and dip soldering small circuit boards

Product ID Description Solder Pot Capacity
17506-100 Lead Free Solder Pot 100W 100g

Lead Free Solder Pot 150W
- Heating element liquefies solder quickly and provides excellent thermal stability
- Crucible is made from stainless steel with titanium plating, featuring corrosion resistance and prolonged service life
- Suitable for melting solder, plastic, resin and more
- Ideal for trimming ends of stranded wire leads, pre-tinning small electrical parts and dip soldering small circuit boards

Product ID Description Solder Pot Capacity
17507-150 Lead Free Solder Pot 150W 150g

Lead Free Solder Pot 200W
- Heating element liquefies solder quickly and provides excellent thermal stability
- Crucible is made from stainless steel with titanium plating, featuring corrosion resistance and prolonged service life
- Suitable for melting solder, plastic, resin and more
- Ideal for trimming ends of stranded wire leads, pre-tinning small electrical parts and dip soldering small circuit boards

Product ID Description Solder Pot Capacity
17508-200 Lead Free Solder Pot 200W 200g

Desoldering Pump - High Impact Plastic 13"- 750°F to 2500°F
- Durable corrosion resistant plastic construction with precision metal plunger
- Cushioned shock reduction minimizes board damage
- Suitable for use on PCB, electronic devices and fine electrical soldering

Product ID Description
17535 Desoldering Pump - High Impact Plastic 13"

Desoldering Pump - Metal Body 7.5"
- Durable corrosion resistant aluminum construction with precision metal plunger
- Cushioned shock reduction minimizes board damage
- Suitable for use on PCB, electronic devices and fine electrical soldering
- Easy to clean one-touch cylinder

Product ID Description
17537 Desoldering Pump - Metal Body 7.5"

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 2500°F)
- Supplied with 1mm Conical Tip

Product ID Description
17801 Portable Soldering Iron 30-70W

Solder Core Wire
- Good solderability, no spattering and non-corrosive
- Lead-free 60/40 (Lead-free solder 99.3/0.7)
- 360-400°F melting point
- 1.1-1.2mm diameter solder available
- Ideal for use on PCB, electronic devices and fine electrical soldering

Product ID Description
17542 Solder Core Wire

Desoldering Wick
- Made of clean, oxide-free copper wire
- Tight weave enables quick "on and off" desoldering
- Concentrated fine copper bradling utilizes less weight of Wick for each desoldering application
- RoHS compliant

Product ID Description
17540 Desoldering Wick 1.0mm (0.0035"
17541 Desoldering Wick 2.0mm (0.08"
17542 Desoldering Wick 3.0mm (0.11"

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### Soldering & Desoldering

**Benchtop Accessories & Soldering Aids**

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<tr>
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<td>Adjustable Circuit Board Holder</td>
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<tr>
<td>17012</td>
<td>Third Hand w/Tweezers</td>
</tr>
<tr>
<td>17523</td>
<td>5-Piece Solder Aid Kit</td>
</tr>
<tr>
<td>17524</td>
<td>Soldering Aids 6-Pc Kit</td>
</tr>
<tr>
<td>17530</td>
<td>Soldering Iron Stand with Soft Coiled Brass Tip Cleaner</td>
</tr>
<tr>
<td>17531</td>
<td>Soldering Iron Stands</td>
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<tr>
<td>17520</td>
<td>Solder Reel Stand</td>
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<tr>
<td>17501</td>
<td>Benchtop Smoke Absorber</td>
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<tr>
<td>17003</td>
<td>Static Eliminator</td>
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<td>17010</td>
<td>Helping Hands Magnifier with Clamps</td>
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**Benchtop 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

**Static Eliminator**
- Provides optimum protection from the destructive effects of electrostatic discharge (ESD)
- Variable speed fan produces an air volume from 35 to 70 CFM
- Covers area of 1 x 5 feet
- Self-balancing to +/- 5V
- Voltage: 110-120V

**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 soldering wire supply

**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

**Soldering Iron Stand with Soft Coiled Brass Tip Cleaner**
- Replaceable soft coiled brass tip cleaner
- Cleans tip 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

**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

**5-Piece Solder Aid Kit**
- Popular solder aids
- Tweezer included
- Head sink included
- 5-piece set provides the right tool at the right time

**Soldering Aids 6-Pc Kit**
- Kit includes six of the most popular soldering aids
- Specialized tools to remove components from PCBs and clean holes choked with solder
- Brushes designed for cleaning surfaces
- Scrapers remove shielding from wires and rust from metal to improve adhesion of solder

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