



Manufacturer & Exporter of High Quality Optical  
Tools-Pliers and Opti Lab Supplies

Manufacturing  
**STRUGLER**  
international



**Optical Tools and  
Pliers-Opti Lab  
Supplies Catalogue**



**ART # 552-007-082**  
**Double Nylon Jaw Plier**

Parallel Jaw For Even Pressure Distribution  
Perfect For Wide Temples  
Nylon Jaw Protect Metal frame finishes



**ART # 552-007-085**  
**EyeWire Adjusting Plier**

For adjusting toric curve on metal frames. Both jaws have curve nylon pads to create a smooth eyewire curve and prevent marring the frame.



**ART # 552-007-087**  
**EyeWire Adjusting Plier**

For adjusting toric curve on metal frames. Both jaws have curve nylon pads to create a smooth eyewire curve and prevent marring the frame.



**ART # 552-007-088**  
**Lens Turning Plier**

Deep throat plier aligns and adjusts lens. Available with a choice of pads. Nickel plated carbon steel.



**ART # 552-007-081**  
**LG Flat Nose Plier**

Parallel action flat nose pliers with smooth jaws the jaws on these pliers open and close parallel like a vice effect handles are nickel plated and jaws are heat treated and chemical blacked



**ART # 552-007-089**  
**Rubber Jaw Plier**

Parallel Jaw for even pressure distribution  
Perfect for wide temples  
Best protection for delicate frame finishes  
Rubber Jaws grip firmly during angling and adjustment



**ART # 552-007-086**  
**Side Cutter Plier**

Designed to cut nickel-silver and rivets.  
Design and size allows cutting in tight areas.



**ART # 552-007-083**  
**Bracing Plier**

Parallel Jaw for bracing in tight areas  
Perfect for wide temples  
Nylon jaw avoids marring delicate frame  
Great for endpiece adjusting pliers



**ART # 552-007-084**  
**SM Flat Nose Plier**

parallel action flat nose pliers with smooth jaws the jaws on these pliers open and close parallel like a vice effect handles are nickel plated and jaws are heat treated and chemical blacked

## Optical Pliers | ERGO Pliers



**ART # 551-006-070**  
**3-Piece Compression Plier**

price control for assembling compression mount frames



**ART # 551-006-079**  
**Bent Snipe Nose Plier**

Helpful for adjusting hard to reach pad arms or to support narrow end pieces.



**ART # 551-006-064**  
**Bent Top Cutter Plier**

Polished high tempered stainless steel construction with box joint.  
Design and size allows cutting in close areas.  
Designed to cut nickel-silver screws and rivets.



**ART # 551-006-065**  
**Flat META. Round Nose Plier**

For semi-rimless cord suspension and general adjustments.  
non-scratching jaw cover and round metal blade tapered.



**ART # 551-006-074**  
**Chain Nose Plier**

Provides better pressure control when adjusting pad arms.



**ART # 551-006-078**

**Chain Nose Plier**

Provides a better grip and control when adjusting pad arms, eyewires and pieces.



**ART # 551-006-059**

**Compression Mount Hardware Removal Plier**

Removes all styles of compression mount frame hardware quickly and easily.



**ART # 551-006-075**

**Compression Trimming Plier**

Trims compression sleeves fast and clean without the risk of damaging lenses.



**ART # 551-006-060**

**De-Blocking Vertical Plier**

Double spring action allows the removal of plastic chucks from lenses when edging is completed.



**ART # 551-006-062**

**End Cutter Plier**

Cut nickel-silver screws and rivets



**ART # 551-006-053**

**EyeWire Shaper Plier**

Nylon Eyewire Shaper Plier ideal for eyewire curve modification. 1 convex jaw & 1 concave.



**ART # 551-006-067**

**Flat/Round Metal Plier**

Ergo Flat-Round Nose Plier Designed to adjust temple arms on metal frames.



**ART # 551-006-061**

**Flat/Round Snipe Nose Plier**

Change the adjustment of a pad arm or great for general adjustments.  
Round blade goes on "nose" side to gently redirect curve.



**ART # 551-006-055**

**Lens Axis Aligning Plier**

Enables small adjustments to lens axis.



**ART # 551-006-068**

**Wide Jaw Pantoscopic plier**

Flares out ends of screws and rivets on frames.  
Stop loose temple & hinge screws.  
Wide jaw design gets around bulky temples.



**ART # 551-006-063**

**Long Chain Nose Plier**

All-purpose pliers for shaping and holding tasks.  
Adjusts bridges, pad arms and temples.  
Smooth, flat jaw with round outer surface tapered to a fine point.



**ART # 551-006-073**

**Long Snipe Nose Plier**

All-purpose pliers for shaping and holding tasks.  
Adjusts bridges, pad arms and temples.  
Smooth, flat jaw with round outer surface tapered to a fine point.



**ART # 551-006-071**

**Double Nylon Plier**

Permits a precise adjustment on the bridge, end piece and temples.



**ART # 551-006-066**

**Narrow Double Nylon Plier**

Perfect for adjusting & shaping any end tip temple or eyewire.



**ART # 551-006-052**  
**Nylon Jaw Gripping Plier**

Permits a Perfect adjustment on metal frames with a better control.



**ART # 551-006-057**  
**Side Cutter Plier**

For cutting titanium, stainless steel, materials and plastic.



**ART # 551-006-076**  
**Side Cutter Plier**

For cutting titanium, stainless steel, materials and plastic.



**ART # 550-005-006**  
**Slim Pad Arm Adjusting Plier**

Reaches tight spots to adjust nose pads.  
Fits all major pad arm assemblies.



**ART # 551-006-054**  
**SM De-Blocking Vertical Plier**

Allows for removal of blocks from lenses when edging is completed.  
Serrated inner jaw for strong holding action.



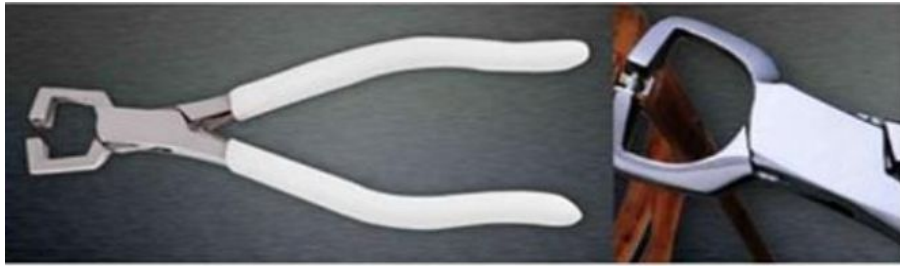
**ART # 551-006-051**  
**SM EyeWire Shaper Plier**

For use on titanium, stainless steel, nickel materials. Max. cutting diameter 1.6mm.



**ART # 551-006-069**  
**Small Lens Axis Aligning Plier**

Designed for lens axis correction on small eyewires or half eyes.



**ART # 551-006-072**  
**Wide Jaw Angling Plier**

Best Pliers for adjusting pantoscopic angles and making alignments.  
Holes in pliers jaws fit over temple hinge screw ends for easy adjustments.  
Wide jaw fits around even the widest temples.



**ART # 551-006-056**  
**Zyle Gripping Plier**

Used for gripping the hinge/temple area on plastic frames.  
Textured handles for control.  
Fiber jaw protects frame finish.

**Optical Pliers | General Purpose Pliers**



**ART # 550-005-038**  
**Bent Nose Chain Plier**

Helpful for adjusting hard to reach pad arms or to support narrow end pieces.



**ART # 550-005-024**  
**Chain Nose Plier**

Ideal for pad arms and thin stainless steel.



**ART # 550-005-007**  
**Double Nylon Jaw Plier**

Specially designed to adjust the frame without scratching it.



**ART # 550-005-027**  
**Flat & Round Adjusting Plier**

Made specially to change the curvature of the pad arms.



**ART # 550-005-050**  
**Flat Chain Nose Plier**

For general shaping and bracing.



**ART # 550-005-028**

**Flat Nose Plier**

For bridge end piece and side adjustments.



**ART # 550-005-048**

**Long Chain Nose Plier**

Allows adjustments in narrow places.



**ART # 550-005-024**

**Narrow Double Nylon Jaw Plier**

Same as above with narrower jaw.  
Perfect for tight spots.



**ART # 550-005-019**

**Nylon Gripping Plier**

For general adjustments on all types of frames.

**Optical Pliers | Speciality Pliers**



**ART # 550-005-033**

**Bridge Adjusting Plier**

Made for bending all types of bridges.



**ART # 550-005-023**

**De-Blocking Vertical Plier**

Double spring action allows the removal of plastic chucks from lenses when edging is completed.



**ART # 550-005-026**

**Deblocker Plier**

For removing blocks and pads from the surface of the lens.





**ART # 550-005-049**  
**European Deblocker Plier**

For quick removal of blocks from lenses when edging is completed.  
Serrated gripper hole and single leaf spring.  
Nickel plated carbon steel.



**ART # 550-005-018**  
**Eye Forming Plier**

Brings the curvature of the eyewire in conformance with the curvature on the lens.



**ART # 550-005-034**  
**EyeWire Forming Plier Small**

Eyewire the curvature of the eyewire in conformance with the curvature on the lens.  
Replacement plastic jaws.



**ART # 550-005-012**  
**EyeWire Sizing Plier**

Holds hinges closed for lens sizing without damaging barrels.



**ART # 550-005-031**  
**Finger Piece Plier**

For gripping endpieces when adjusting pantoscopic angle on metal frames.  
Parallel jaws have recesses to accommodate for screws.



**ART # 551-006-058**  
**Lens Aligning Plier**

Pliers are designed for lens axis correction on small eyewire or half eyes.  
Perfect design for lens axis adjustment.  
Replaceable pads.



**ART # 550-005-017**  
**Lens Aligning Plier**

Designed for lens axis correction.



**ART # 550-005-039**  
**Lens Deblocking Plier**

This plier is designed to quickly and effortlessly remove blocks used by different edging machines. The jaws are capable of closing tightly. The serrated jaws give the operator a better grip on the block. Serrated jaws for better grip. Designed to remove blocks from multiple edging machine brands.



**ART # 550-005-020**  
**Narrow EyeWire Sizing Plier**

This plier allows the operator to check lens sizing without having to tighten or apply the hinge screws or the eyewire. The plier will hold the eyewire closed without damaging the screw barrels. The narrow & tapered jaws are perfect for the new styles of frames. Will not damage screw barrels.



**ART # 550-005-001**  
**Nose Pad Adjusting Plier**

An excellent design which allows the operator to adjust nose pad arms. Perfect design for adjusting nose pad arms. Safe and easy to adjust all types of nose pads.



**ART # 550-005-030**  
**Nose Pad Adjusting Plier**

Excellent for adjusting all types of pad arms safely and easily.



**ART # 550-005-016**  
**Numont Plier**

Designed for holding semi-rimless frames and numont while adjusting frame, pieces or temples. The grooved jaws are perfectly made to hold the frame while the temple or endpieces are adjusted.



**ART # 550-005-037**  
**Pad Removing Plier**

This plier allows you to remove pads safely and quickly.



**ART # 550-005-011**  
**Rimless Compression Plier**

This plier allows the operator to have precise control when assembling 3pc or 2pc compression mount frames. Both jaws are plastic with an angled channel.

- Plastic pads on jaw are replaceable
- For assembly of 3pc compression mount frames
- Ergonomic handle



**ART # 550-005-009**  
**Rimless Screw Bracing Plier**

This plier allows the operator to securely brace on the endpiece while adjusting the frame. This prevents against lens cracking or endpiece breakage and makes 3-piece adjustments effortless. One jaw is metal with a channel for the endpiece and the other jaw is flat metal which prevents damage to the frame. Securely braces the endpiece during rimless frame adjustment.



**ART # 550-005-003**  
**Round Cold Bending Plier**

This plier is designed for bending metal and plastic temples with or without the use of heat. One jaw is flat with a channel while the other is oval. Both jaws are replaceable nylon which prevents damage to the temples. Bends metal and plastic temples. Nylon replaceable jaws. One jaw is oval and one is flat channeled.



**ART # 550-005-047**  
**Screw Guide / Holding Plier**

Perfectly designed for holding screws tightly prior to insertion. Plier jaw is slotted which allows the operator to have a better grip on the screw head. Very effective when working with spring hinge or nose pad screws.



**ART # 550-005-036**  
**Sizing / Screw Insertion Plier**

For sizing and lens mounting as well as hinge and screw insertion.



**ART # 550-005-046**  
**Slim Nose Pad Adjusting Plier**

Easily accommodates screw and snap nose pad arms to adjust nose pad.



**ART # 550-005-010**  
**Small Lens Aligner**

These pliers are designed for lens axis correction on small eyewire or half eyes. The narrow pads allow the operator to effortlessly work with today's newest styles. The ergonomic handle gives the operator a more comfortable and sturdy grip. Perfect design for lens axis adjustment. Replaceable pads. Narrow pads work perfectly with new frame designs.



**ART # 550-005-002**  
**Temple Adjusting Plier**

This plier is specially designed for bending temples to match the most comfortable fit for the patient. One jaw is flat with 4 channels and the opposite jaw has 4 ovals giving the operator 4 different levels of bending. Metal and plastic temples can be aligned with this tool. Adjusts metal and plastic. 4 levels of adjustment. Zyl temples can be adjusted without heat.



**ART # 550-005-025**

**Trident Plier**

Specially designed for making tight, smooth bends in nose pad arms and reducing bridge distance on metal on frames.



**ART # 550-005-035**

**Wide Jaw Angling Plier**

Best pliers for adjusting pantosting pantoscopio angles and making alignments  
Holes in pliers jaws fit over temple hinge screw ends for easy adjustments  
Wide jaw fits around even the widest temples



**ART # 550-005-015**

**Screw Insertion Plier**

Angling plier / Allows easy access to hinge for pantoscopic angling.

## Optical Pliers | Cutting Pliers



**ART # 550-005-004**

**Top Cutter Double Hinge**

This top cutter tool is designed for cutting titanium, stainless steel, and nickel materials. The top cutter is used for cutting screws. The double hinge design allows the plier to apply more pressure and cut harder materials. Cuts stainless steel, titanium, nickel materials. Double hinge design for more torque. Top cutter makes it easier to cut screws.



**ART # 550-005-029**

**Bushing Trimmer Plier**

This cutter is specially designed for trimming the extra material from the bushings once they are mounted on the lens. It allows the operator to trim the access material without scratching the lenses. Made to trim bushings once they are mounted on a frame. Should only be used on plastic.



**ART # 550-005-041**  
**Bushing Trimming Plier**

This cutter is specially designed for trimming the extra material from the bushings once they are mounted on the lens. It allows the operator to trim the excess material without scratching the lens. Made to trim bushings once they are mounted on a frame. Should only be used on plastic.



**ART # 550-005-042**  
**End Cutter Plier**

Cuts nickel- silver and rivets



**ART # 550-005-040**  
**Large Side Cutting Plier**

These side cutting pliers are small enough to access hard to reach spots. However they have hardened steel cutting teeth which allow them to cut tempiles, monel and other soft metal materials. Not recommended for cutting titanium and stainless steel. Designed for cutting in hard to reach spots. Hardened steel teeth. Great cutting capability in a small package. For cutting monel, plastic, and other soft metals.



**ART # 550-005-008**  
**Large Top Cutting Plier**

This top cutter tool is designed for cutting titanium, stainless steel, and nickel materials. The top cutter is used for cutting screws. The ergonomic handle gives the operator a more comfortable and sturdy grip. Cuts titanium, stainless steel, and nickel materials. Max Cutting Diameter: 1.4mm. Ergonomic handle for superior comfort and handling. A great cutting tool for a low price.



**ART # 550-005-005-001**  
**LG Rimless Screw Cutter**

Speecially designed to cut the end of the screws.



**ART # 550-005-021**  
**Oblique LG Top Cutting Plier**

For use on soft metals & plastic. "Not recommended for Stainless Steel".



**ART # 550-005-043**  
**Oblique SM Top Cutting Plier**

For use on soft metals & plastic. "Not recommended for Stainless Steel". Angled at 30 degrees.



**ART # 550-005-013**  
**Oblique Top Cutting Plier**

For use on soft metals & plastic. "Not recommended for Stainless Steel" Angled at 30 degrees.



**ART # 550-005-014**  
**Side Cutter Double Hinge**

This side cutter tool is designed for cutting titanium, stainless steel, and nickel materials. The side cutter is used for cutting temples. The double hinge design allows the plier to apply more pressure and cut harder materials.  
Cuts stainless steel, titanium, nickel materials.  
Double hinge design for more torque  
Side cutter makes it easier to cut temples



**ART # 550-005-044**  
**Side Cutter Double Hinge**

This side cutter tool is designed for cutting titanium, stainless steel, and nickel materials. The side cutter is used for cutting temples. The double hinge design allows the plier to apply more pressure and cut harder materials.  
Cuts stainless steel, titanium, nickel materials  
Double hinge design for more torque  
Side cutter makes it easier to cut temples



**ART # 550-005-045**  
**Side Cutter Plier**

For use on soft metals & plastic. "Not recommended for Stainless Steel".



**ART # 550-005-005-002**  
**SM Rimless Screw Cutter**

This screw cutter is designed to effortlessly and cleanly cut the ends of screws up to 1.4mm in diameter. Cuts the end of screws cleanly

## Screw Drivers



**ART # 220-015-011**  
**Flat Screw Driver 1.0 & 1.5 mm**

Specially designed phillips screwdriver for nose pad and other small screws.



**ART # 220-015-001**  
**Flat Screw Driver 1.5 & 2.5 mm**

This Flat Head screw driver is very light weight and has a rolling grip. It comes with 1 Flat attachment which has 2 heads (1.5mm & 2.5mm).  
Light weight with rolling grip  
1 Flat Head attachment (1.5mm & 2.5mm heads)



**ART # 220-015-004**  
**Heavy Duty Screw Driver**

Heavy Duty Screwdriver  
Ball bearing mechanism improves control and precision.



**ART # 220-015-023**  
**Heavy Duty Screw Driver**

Ball bearing mechanism improves control and precision.  
flat replacement tips  
phillips replacement tips



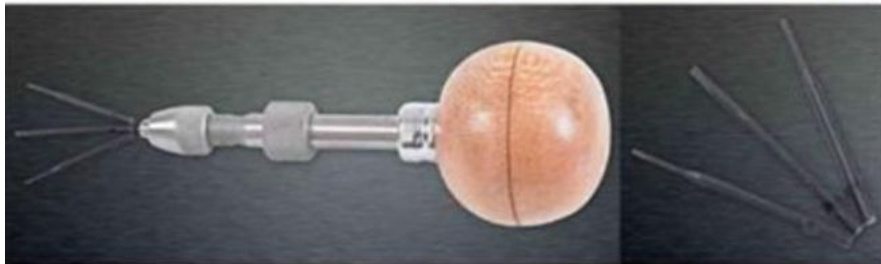
**ART # 220-015-015**  
**One-tip Style Phillips Screw Driver (Flat)**

Slim tip screwdriver.



**ART # 220-015-013**  
**One-tip Style Screw Driver (Flat)**

Slim tip screwdriver.



**ART # 220-015-018**  
**Ball Type Screw Driver**

Ergonomically Deigned



**ART # 220-015-020**  
**Brass Screw Driver (3 Tips)**

Brass Screwdriver (3 pieces)  
Comes with 3 different types of blades.



**ART # 220-015-022**  
**Brass Screw Driver Kit (12 PCS.)**

Brass Screwdriver Kit (12 pieces.)  
Comes with 11 different types of blades, including tips for screws,nuts, extractors,etc.



**ART # 220-015-003**  
**Flat Aluminum Screw Driver**

Flat Aluminum Screwdriver  
Light weight and durable  
flat screwdriver.



**ART # 220-015-005**  
**Flat Head Screw Driver**

Lightweight durable standard  
flat screwdriver.



**ART # 220-015-006**  
**Flat Pick-up Screw Driver**

Flat Pick-up Screwdriver with  
Holds screws securely during  
insertion or removal.



**ART # 220-015-016**  
**One-tip Style Screw Driver 1.0 mm Tip (Flat)**

Slim tip screwdriver.



**ART # 220-015-002**  
**Phillips Aluminum Screw Driver**

Phillips Aluminum Screwdriver  
Light weight and durable  
phillips screwdriver.



**ART # 220-015-010**  
**Phillips Pick-up Screw Driver**

Hold screwdriver securely during  
insertion or removal.



**ART # 220-015-007**  
**Phillips Screw Driver**

Durable standoed phillips  
screwdriver.





**ART # 220-015-012**  
**Phillips Screw Driver 1.5 & 2.5 mm / Lightweight**

Phillips Screwdriver 1.5 & 2.5 mm / Lightweight  
 Durable standard phillips screwdriver.



**ART # 220-015-008**  
**Screw Driver Handle With 3 Tips**

Complete set of extractor tips and screwdriver.

**Replacement Tips, Pads, and Jaws**

Image	Size (mm)				Description	Image	Size (mm)				Description
	Diam.	Lght.	Tip1	Tip2			Diam.	Lght.	Tip1	Tip2	
					<b>Description, Pak, Part &amp; Price</b> Screwdrive Spare Handle <b>220-015-0001</b>		2.97	33	2.4		Wrench Tip for European Nut <b>220-015-0009</b>
	2.8	50	1.4	1.4	2 Side Flat Blades (Pack: 10 pcs) <b>220-015-0050</b>		2.97	33	2.9		Wrench Tip for Asian Nut <b>220-015-0010</b>
	2.8	50	1.4	1.4	2 Side Phillips Blades (Pack: 10 pcs) <b>220-015-0055</b>		2.97	33	2.6		Large Wrench Tip for 6 Point Star Shape Nut <b>220-015-0011</b>
	2.8	50	1.4	1.4	2 Side Flat & Pguukuos Blades (Pack: 10 pcs) <b>220-015-0060</b>		2.97	38	1.6		Small Wrench Tip for 6 Point Star Shape Nut <b>220-015-0012</b>
	2.8	50	1.8	1.8	2 Side Flat Blades (Pack: 10 pcs) <b>220-015-0065</b>		2.97	38	1.6		Small Wrench Tip for 6 Point Star Shape Nut <b>220-015-0013</b>
	2.8	50	1.8	1.8	2 Side Phillips Blades (Pack: 10 pcs) <b>220-015-0070</b>		2.97	40	2.5		Wrench Tip Asian Style Nuts <b>220-015-0014</b>
	2.8	50	1.8	1.8	2 Side Flat & Phillips Blades (Pack: 10 pcs) <b>220-015-0075</b>		2.97	40	2.8		Wrench Tip for American Hex Nut <b>220-015-0015</b>
	2.45	33	1.98		Flat Tip for Heavy Duty Screwdriver <b>220-015-0002</b>		2.97	40	2.1	1.5	Scratch-less Flat Blade for Delicat Frames <b>220-015-0016</b>
	2.45	33	P-1.8		Phillips Tip for Heavy Duty Screwdriver <b>220-015-0003</b>		2.97	33	F-2.1	P-2.0	Replacement Flat & Phillios Tios <b>220-015-0017</b>
	2.97	60	1.95		Phillips Replacement Tip for Heavy Duty oucjoyo Screwdriver <b>220-015-0004</b>		4.9	19	3.1		Nylon part for Delicate Blades-Rimless <b>220-015-0018</b>
	2.97	60	1.95		Phillips Replacement Tip for Heavy Duty oucjoyo Screwdriver <b>220-015-0005</b>		0.9	14.5	0.9		Hook for Mounting Tool <b>220-015-0019</b>
	2.97	51	2.1	1.6	Flat Replacement tips for Screwdriver <b>220-015-0006</b>						
	2.97	51	2	1.4	Phillips Replacement tips for Screwdriver <b>220-015-0007</b>						



2.97 33 2.5  
Wrench Tip for American Nut  
220-015-0008



2.3 33 1.98  
Flat Replacement tip for Ball Type  
Screwdriver  
220-015-0020



2.36 33 1.4  
Phillips Replacement Tip for Ball T Screw  
Tip  
220-015-0021



2.9 34 2.57  
2.57mm Replacement Blades for  
220-015-0029



2.36 33 1.4  
Phillips Tip for BA Aluminum Screwdriver  
220-015-0022



2.9 38 1.5  
Phillips 1.5mm Replacement Blades  
220-015-0030



3.1 33 2.3  
Flat Tip for Aluminum Screw  
Tip  
220-015-0023



2.97 38 1.8  
Phillips 1.8mm Replacement Blades  
220-015-0031



3.8 8 2.04  
Nylon Replacement Tip for Deluxe Caliper  
220-015-0024



2.9 34 2.5  
Star 2.52mm Replacement for  
220-015-0032



2.97 38 1.6  
Flat 1.6mm Replacement  
Blades  
220-015-0025



2.9 34 2.8  
Star 2.80mm Replacement for  
220-015-0033



2.97 38 1.8  
Flat 1.8mm Replacement  
Blades  
220-015-0026



2.97 51 2.0 2.0  
Replacement Extractor Tip  
220-015-0034



2.9 34 2.02  
Hex 2.02mm Replacement  
Blades  
220-015-0027

2.97 51 1.5 1.5  
Replacement Extractor Tip  
220-015-0035



2.97 34 2.32  
Hex 2.02mm Replacement  
Blades  
220-015-0028

2.97 51 1.2 1.2  
Replacement Extractor Tip  
220-015-0036

## Tweezers



**ART # 031-020-003**  
**Curved Fiber Grip Self Locking Tweezer**

Stainless steel tweezers. Self-locking, curved jaws are good for soldering operations, or for holding parts.



**ART # 031-020-005**  
**Curved Self-Closing Tweezer**

Self-rocking, curved jaw are idea for holding screws or holding other parts.



**ART # 031-020-006**  
**Cutting Tweezer**

Specially designed cutting tweezers allow you to cut nylon threads safely and quickly.



**ART # 031-020-013**  
**Fiber Grip Self Locking Tweezer**

Soldering self-locking tweezers with fiber grips.



**ART # 031-020-016**  
**Foreign Body Forceps**

Length: 3.375" (86mm)



**ART # 031-020-015**  
**Jeweler's Forceps**

Length: 4.5" (116mm)



**ART # 031-020-007**  
**LG Stainless Steel Tweezer**

Length: 4.14"  
Tips come to a point for ease in handling most minute parts. Nickel plated.



**ART # 031-020-009**  
**Optical Tweezer**

Tips come to a point for ease in handling most minute parts.



**ART # 031-020-011**  
**Screw Holding Self locking Tweezer**

You can manually lock the tweezer when the screw is secure.



**ART # 031-020-001**  
**Screw Holding Tweezer**

Specially designed for handling screws and a variety of small parts.



**ART # 031-020-014**  
**Foreign Body Forceps**

Specially designed for handling screws and a variety of small parts.



**ART # 031-020-012**  
**Self Locking Tweezer**

You can manually lock the tweezers when the screw is secure.



**ART # 031-020-002**  
**Self-Closing Tweezer**

Specially designed for attaching nose pad screws without pressure.



**ART # 031-020-008**  
**SM Screw Holding Tweezer**

Designed to hold tiny pad screws and other small screws in tight areas. Special groove in tip helps prevent screw loss. Stainless steel.



**ART # 031-020-004**  
**T-Slot Screw Holding Tweezer**

Special groove in tip for securing screws of varying lengths and head diameters. Stainless steel, straight tip.



**ART # 031-020-010**  
**Tweezer to Remove Push-On Nose Pads**

Nose Pads Extractor Tweezer  
Long tweezers to quickly remove push-on nose pads.

# Measuring Devices



**ART # 220-030-005**  
**Deluxe Degree Lens Caliper**

Precise measuring of the thickness of lenses up to 1.9mm at a max. depth of 3.5mm Calibrated in 0.2mm



**ART # 220-030-004**  
**Lens Thickness Caliper**

Degree Lens Caliper Narrow Jaw  
SS with nylon jaws to prevent marring the lens.  
Graduated in 1.5 mm and designed hold a 75 mm lens.



**ART # 220-030-016**  
**Metal P.D. Ruler**

Length: 6". Stainless steel construction. Graduated in millimeters and sixteenths of an inch.



**ART # 220-030-006**  
**Vernier Caliper**

Vernier Caliper NEW Length: 90xThroat depth: 47mm Measures lense up to 90mm across and 22 mm thick. Balance point is centered on cushioned grips. Large, easy to read vernier scale.



**ART # 220-030-007**  
**Wide Jaw Lens Thickness Caliper**

Deep, wide jaws measure up to 19mm at a maximum depth of 3.5mm calibrated in 0.20mm increments

# Tools / Lab Supplies



## ART # 220-030-018 3 PCS Punch Set

Each punch is made out of high strength stainless steel. One point peening punch, one blunt pin punch and one blade punch. All punches are approximately 95mm in length (3.75 inches.).



## ART # 220-030-027 All Purpose Optical Lab Snips

These tough snips are excellent for hand plastic pattern blanks and other lab chores. Blank comfort handles.



## ART # 220-030-021 Aluminium Bench Block

Bench Block  
Heavy duty, 1/4" thick rubber top with notches to hold work securely without marring.  
(1"x3"x1")



## ART # 220-030-003 Deblocker

Removes lens block safely and quickly  
For use with 3M Leap  
Blocks, Shuron, Cobin, AIT & SemiTech  
Stainless Steel Construction with vinyl handle



## ART # 220-030-002 Deblocking Tool

Removes lens block safely and quickly  
For use with 3M Leap  
Blocks, Shuron, Cobin, AIT & SemiTech  
Stainless Steel Construction with vinyl handle



## ART # 220-030-023 Doctor Hinge - Spring Hinge Solution

The Hine Doctor has been created to eliminate frustrations and time lost when removing and inserting screws in spring hinges. Very effective and simple to use.



## ART # 458-011-011 Filling Brushes

The finest quality brush. Highest grade white bristles, uniform in size throughout its length, solidly anchored to well seasoned wood handles. Bristles are tightly packed in metal center with lead bushings. Bristles are of proper stiffness-will provide better performance and longer life.



**ART # 220-030-031**  
**Mini Anvil**

Solid Steel Anvil Weighing Approximately 600 Grams.  
The Top is Approximately 110mm by 28mm.  
The Anvil is 40mm in Height. This Tool has Many uses In the Optical Lab.



**ART # 220-030-032**  
**Mini Anvil**

Solid Steel Anvil Weighing Approximately Grams.  
The Top is Approximately 110mm by 28mm.  
The Anvil is 40mm in Height. This Tool has Many uses In the Optical Lab.



**ART # 220-030-040**  
**Mini Screw Extractor**

Specially Designed to Extract Broken Screws.



**ART # 220-030-024**  
**Nose Pad Popper**

Remove Snap-in type Nose Pads Without affecting padArm Alignment.



**ART # 220-030-009**  
**Nylon/Brass Mallet**

Multi-use lab Mallet used for firm And Delicate Non-,arking Strikes.



**ART # 220-030-038-1**  
**Nylon Mounting Hook**

Hook to insert the nylon thread into the groove of the lens.



**ART # 220-030-017**  
**Pin Vise**

Top Holder  
A practical tool to hold Tips on Both Sides.