

GLASS SAWS

Clean, accurate and fast cuts with minimal adjustments and/or maintenance have made these saws leaders in the field. You will find these saws to be dependable for day in, day out use!

Taurus 3

Now Quieter With Fewer Moving Parts!

TAURUS 3 RING SAW (#0390) has been tweaked in all the right ways to make this one of the best tools to have in your studio or shop. Check out these features:

- Fewer moving parts makes for easier maintenance
- 25% larger work surface
- **3 year warranty**
- 1/5 hp motor
- Built-in, flip up face shield
- Greater blade exposure plus a built-in intense white LED light makes seeing your work easier
- .072" stainless steel omni-directional ring blade
- The entire working half of the saw can be removed from the reservoir to be used as a handheld saw, plus it makes clean up much easier



TAURUS 3 REPLACEMENT BLADES (each blade replacement pack contains the stainless steel blade and 2 orange grommets):

- **Standard Repl Blade (#03920)** original equipment blade
- **Mega Blade (#03921)** has an teardrop-shape cross section for extra aggressive cutting action. Very handy for cutting thicker glass or fused glass items that are over 1/8" thick. For best results, use with the flocked drive belt
- **Slim Repl Blade (#03922)** narrower kerf
- **Separating Blade (#03923)** allows the user to cut on the inside of the glass without the need for an access cut. You only need to drill a hole in your glass, open your Separating Blade, put it through the hole, rejoin the blade and cut.
- **Slicing Blade (#03925)** has a super-thin cross section which removes the least amount of material. Perfect for cutting murrini rod or other thick items. Works best for cutting straight. Not so swell for curves. Use with the Taurus Super Slicer. For best results, use with the flocked drive belt
- **Dichroic Blade (#03929)** uses the Slim Blade and coats it with extra fine diamonds. The result is a blade perfectly suited for working with dichroic and iridized coatings. The combination of thin blade and fine diamonds makes for a smooth edge that allows you to fire at a lower temperature to achieve a fire polished edge.



Slicing Blade + Flocked Belt (#03934) has a super-thin cross section which removes the least amount of material. Includes 2 Orange Groove Grommets and Flocked Belt. **Best used with the included flocked drive belt.**

Speed Blade + Flocked Belt (#03935) has an inverted teardrop-shape cross section for faster and more aggressive cutting action. Includes 2 Orange Groove Grommets and Flocked Belt. **Must be used with the included flocked drive belt.**

Taurus 3 Blade & Parts Kit (#03910) includes the standard OEM blade plus 2 orange grommets, 2 orange groove grommet assemblies, 5 blue pulleys with bearings and a drive belt.

Mega Blade & Parts Kit (#03911) includes the Mega blade plus 2 orange grommets, 2 orange groove grommet assemblies, 5 blue pulleys with bearings and a regular drive belt.



TAURUS 3 REPLACEMENT PARTS:

- **Orange Groove Grommets (#039242)** Your saw uses two. Sold in pack of 2.
- **Orange Groove Grommet Assemblies (#03928)** is the Orange Groove Grommet, above, with the bearing installed. Sold individually. Your saw uses two.
- **Blade Stabilizer For Taurus 3 Saws (#03926)** this is standard equipment on saws produced the past couple years. Earlier versions did not include this item. If you don't have one on your saw, it will be worth the investment in longer blade life.
- **Tension Arm and Spring For Taurus 3 Saws (#03936)** provides proper tension of the drive belt.
- **Flocked Drive Belt (#03923)** should be used on Taurus 3 Saws when cutting with the Mega, Slicer or Speed Blades. Flocked belts are fiber reinforced to stand up to the tougher blades.
- **Taurus 3 Hole Reducer Sheet (#03909)** are the stick on hole reducers that you affix to the work surface surrounding the blade. Sold as a sheet of 24.
- **Replacement Face Shield For Taurus 3 (#03908)**



TAURUS II.² & TAURUS 3 REPLACEMENT PARTS (parts that fit both Taurus saws):

- **Blue Pulleys With Bearings For Taurus Ring Saws (#03825)** Sold individually. Your saw uses FIVE, however it is rare that ALL will fail. Generally only one or two are needed — the ones that are most exposed to water.
- **Wide Side Railed Blue Pulleys With Bearings (#03826)** Sold individually. Use in positions 1, 2, 3 & 5 on your T2 saw for better belt tracking.
- **Drive Belt For Taurus Ring Saws (#03820)**
- **Drive Gear (#03817)** — Sold individually. Your saw uses ONE.



See p. C-2 for more parts and accessories for your Taurus II.² Ring Saw

TAURUS 3 ACCESSORY KITS:

Accessories Kit For Taurus 3 Saws (#03907) gives all the bits and pieces you need to make the Taurus 3 the most flexible cutting system you can own. Includes Beveling Block, Lamp Block, Straight Edge, Triangle Angle Guides and Circle Maker. (Instructional DVD is NOT included).



Taurus 3 Instructional Dvd (#03927) has everything you need to know about your T-3 Ring Saw.



Super Slicer Kit For Taurus 3 (#0395) makes perfect, even slices through murrini rod or other thick shapes. The Super Slicer holds your rod securely, then you simply grab the handle and feed the rod through the blade. A perfect slice every time. For best results, use with Gemini's Slicing Blade (#03925).



Taurus II.² Blades, Parts & Access

TAURUS II.² REPLACEMENT BLADES (each blade replacement pack contains the stainless steel blade, 3 yellow, 4 red grommets and 2 hole reducers):

- **Standard Repl Blade (#03811)** original equipment blade.
- **Slim Repl Blade (#03812)** narrower kerf
- **Separating Blade (#03813)** allows the user to cut on the inside of the glass without the need for an access cut. You only need to drill a hole in your glass, open your Separating Blade, put it through the hole, rejoin the blade and cut.
- **Dichroic Blade (#03814)** uses the Slim Blade and coats it with extra fine diamonds. The result is a blade perfectly suited for working with dichroic and iridized coatings. The combination of thin blade and fine diamonds makes for a smooth edge that allows you to fire at a lower temperature to achieve a fire polished edge.
- **Taurus II.² Blade & Parts Kit (#03819)** includes the standard OEM blade plus eight 6 and 3 yellow grommets, two hole reducer plugs, a blue pulley with bearing, a drive belt, five R2 bearings with caps, raceway strips and some M3 screws.

See p. C-1 for more parts for your Taurus II.² Ring Saw



TAURUS II.² ACCESSORIES:

- **Face Shield And Spot Light (#03806)** – includes a battery operated easy-on-the-eyes LED light and a clear face shield.
- **Complete Accessory Kit (#03805)** contains tools for cutting 30/45/60° angles, 45° beveler for perfect box corners, 10° beveler for lamp work, straight edge guide, a circle maker, hole reducers, face shield, LED spot light and an instructional book and video.



TAURUS II.² REPLACEMENT PARTS:

- **Red Gear Grommets For Taurus II.2 Saws (#03822)** Sold individually. Your saw uses TWO.
- **Yellow Grommets For Taurus II.2 Saws (#03821)** Sold individually. Your saw uses THREE.
- **R2 Bearings For Taurus II.2 Saws (#03823)** Sold individually. Your saw uses FIVE, one inside each yellow and red grommet.
- **Hole Reducers (#03809)** Sold individually. Your saw uses ONE.
- **Raceway Strips (#03824)** These are the stainless steel strips that help guide the blade and belt. Package includes one outer raceway (plastic) and two steel wear strips. Your saw uses one set.
- **L-Bracket Assembly With Red Geared Grommets & Bearings (#03829)** This part is directly below the work surface and guides the blade through. Your saw uses one.
- **Spring (#03828)** Stainless steel spring. Your saw uses one.
- **Replacement Surface For Taurus II.² (#03827)** Should your surface get chewed up from a lot of use, we have the replacement surface for you.



	STANDARD	SEPARATING	SLIM	DICHRIC	MEGA	SPEED	SLICING
BLADE SHAPE	ROUND .072" DIAMETER	ROUND .072" DIAMETER	OVAL .062 x .072"	OVAL .058 x .072"	TEARDROP .072 x .150"	TEARDROP .055 x .150"	FLAT .040 x .150"
CROSS SECTION	●	●	●	●	●	●	●
GRIT	AGGRESSIVE	AGGRESSIVE	AGGRESSIVE	FINEST	AGGRESSIVE	AGGRESSIVE	FINE
RECOMMENDED GLASS CUTTING THICKNESS*	1/8"	1/8"	1/8"	1/8"	3/4"	3/4"	3/4"
AVERAGE BLADE LIFE	40-60 hrs	40-60 hrs	40-60 hrs	40-60 hrs	50-100 hrs	50-100 hrs	50-100 hrs
AVAILABLE FOR TAURUS SAW	II. ² & 3	II. ² & 3	II. ² & 3	II. ² & 3	3 ONLY	3 ONLY	3 ONLY

* Recommended material cutting thickness will vary depending on the hardness of the material. The Taurus saws will also cut ceramic tile, stone, shell, nonferrous metals, hard plastics (such as acrylic and lexan) and anything that has a similar density to these materials

Gemini Apollo Saw

GEMINI APOLLO SAW (#0410) is made to cut glass, tile, ceramics and stone quickly and easily. The sliding table, as previously featured on the Titan Saw, gives great precision to long, straight cuts in materials three inches thick. A perfect saw for fusers as it will allow you cut straight and true in heavy fused or cast glass pieces. It can also be used for creative work such as cutting wine bottles - even lengthwise. Check these features:

- **FOUR** different blade styles are available to expand usefulness and function of the saw
- Blades are mounted in easy to change cartridges to speed blade changes
- 1/3 Hp Motor
- Sliding table top with rubber surface
- Magnetic multi-purpose angles for extreme cutting precision, especially for mitered cuts

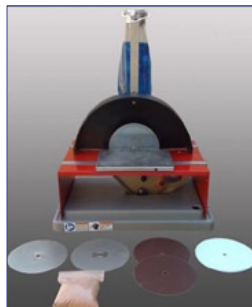


NOTE: Saw does NOT include Blades and Cartridges. Blades and Cartridges are sold separately

GRINDING/POLISHING STATION (#04160)

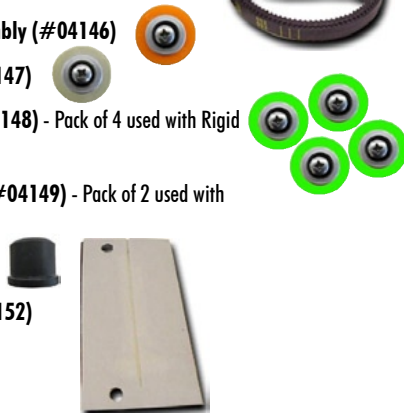
expands the capabilities of the Apollo Ring Saw, allowing the user to bevel, grind, and polish glass, stone, jewelry and more. The quick-change Grinding/Polishing cartridge sets-up easily on the Apollo Ring Saw. The grinding and polishing disc rotates vertically, allowing the user to easily obtain precise 90-degree edges. The cartridge has an independent gravity-fed water system for cooling and lubrication, where the water is dispersed through the center of the discs for clean, optimal performance. Kit contents include:

- Splash Cover
- Water feeding system
- One 100 grit pad
- One 260 grit pad
- Two 325-grit grinding pads
- 1 felt polishing pad
- 1/2 lb. of cerium oxide polishing compound



APOLLO REPLACEMENT PARTS:

- Drive Belt For Taurus Ring Saws (#04145)
- Orange Groove Grommet Assembly (#04146)
- Clear Grommet Assembly (#04147)
- Green Grommet Assembly (#04148) - Pack of 4 used with Rigid Sintered Ring
- Red Cone Grommet Assembly (#04149) - Pack of 2 used with Double-Sided Sintered Ring
- Hole Plug + Feet (#04151)
- Magnetic Felt Filter Plate (#04152)



GEMINI APOLLO BLADE WITH CARTRIDGE - Blades are mounted in easy to change cartridges to speed blade changes.

- Blades are mounted in easy to change cartridges to speed blade changes
- Sintered blades are long lasting - unlike standard plated blades, sintered blades expose more diamonds as they wear. Blades stay sharp right to the very end
- Optional wire ring saw cartridge and blade - gives you the fancy pattern cutting ability of a taurus 3 ring saw

CARTRIDGES WITH WIRE BLADES:

- Wire Blade Cartridge with Standard Blade (#04110)
- Wire Blade Cartridge with Slim Blade (#04111)
- Wire Blade Cartridge with Dichro Blade (#04112)
- Wire Blade Cartridge with Slicing Blade (#04160)
- Wire Blade Cartridge with Mega Blade (#04161)
- Wire Blade Cartridge with Speed Blade (#04162)



CARTRIDGES WITH DOUBLE SINTERED BLADES (6" dia):

- Double Sintered Blade Cartridge - Standard Grit (#04130)
- Double Sintered Blade Cartridge - Fine Grit (#04131)



CARTRIDGES WITH RIGID SINTERED BLADES (6" dia):

- Rigid Sintered Blade Cartridge - Standard Grit (#04120)
- Rigid Sintered Blade Cartridge - Fine Grit (#04121)



GEMINI APOLLO REPLACEMENT BLADES = NO CARTRIDGE =

CARTRIDGES WITH WIRE BLADES:

- Standard Wire Blade (#04115)
- Slim Wire Blade (#04116)
- Dichro Wire Blade (#04117)



CARTRIDGES WITH DOUBLE SINTERED BLADES (6" dia):

- Double Sintered Blade - Standard Grit (#04135)
- Double Sintered Blade - Fine Grit (#04136)



CARTRIDGES WITH RIGID SINTERED BLADES (6" dia):

- Rigid Sintered Blade - Standard Grit (#04125)
- Rigid Sintered Blade - Fine Grit (#04126)



Gryphon Zephyr+

ZEPHYR+ RING SAW (#0345) cuts in any direction, and operation is very smooth and quiet. The Zephyr saw has a large work surface that is free of obstructions. The overhead blade support is slender, allowing the artist to have a very clear view of the material as it is cut. In addition, the Zephyr has a deeper throat and more clearance for the glass than other popular ring saws. The saw has been designed for quiet operation and low maintenance. Critical moving parts are shielded to minimize the abuse from the glass dust that is generated when cutting. The highest quality bearings and wheels are used to extend the life of these critical parts. The Gryphon Zephyr will cut glass, tile, rock and all other similar hard materials. Check out these features:

- MUCH quieter operation
- 20% deeper throat (6 5/8" vs. 5 1/2") than other Ring Saws
- 1-3/4" height clearance (measured at blade)
- Long lasting bearings and wheels
- The entire working half of the saw can be removed from the reservoir to be used as a handheld saw without the need to attach a separate housing cover AND it has a handle for hand held operation
- **3 year warranty**
- 1/3 hp Direct Drive DC motor
- Large 18x18" work surface
- Built-in, flip up face shield
- Greater blade exposure plus a built-in intense white LED light makes seeing your work easier
- Includes **TWO blades and 3 EXTRA rubber inserts for guide wheels**



ZEPHYR REPLACEMENT BLADES & PARTS:

- **Standard Repl Blade (#03450)** original equipment blade
- **Fine Blade (#03457)** - a less aggressive grit which is ideal for dichroic glass
- **Separating Blade (#03458)** - allows the user to cut on the inside of the glass without the need for an access cut. You only need to drill a hole in your glass, open your Separating Blade, put it through the hole, rejoin the blade and cut
- **Super Power Blade (#03459)** - the choice for the quickest cuts
- **White Drive Gear (#03449)**



- **Rubber Inserts For Guide Wheels (#03451)**



- **Aluminum Guide Wheels (#03452)** includes bearing and rubber inserts



- **Purple Idler Guide Wheels (#03453)**



- **Drive Belt (#03454)**



- **Replacement Work Surface (#03455)**

- **Replacement Face Shield (#03456)**

Gryphon Omni-2 Plus+ Wire Saw

GRYPHON OMNI-2 Plus+ WIRE SAW (#0360) works like a Jig Saw for Glass! Wire Saw not only cuts in all directions, it cuts INSIDE in all directions. Simply drill a hole thru your piece of glass, pass the wire blade through the hole, and cut! Easy to use, gives your glass a nice, finished edge with NO CHIPS. Check these features:

- 5000 RPM 1/4 hp Direct Drive DC motor
- 1 sq ft work surface gives you plenty of room
- **Comes with 6 blades with 1 1/2" stroke, an extra set of blade guides and a spare blade chuck**
- Bright LED illuminates your area around the blade
- Built-in, automatic water pump recirculates water from base
- **FIVE** Year Warranty on saw



GRYPHON OMNI-2 WIRE SAW REPLACEMENT BLADES & PARTS:

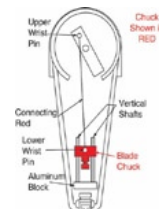
- **Fine grit (#03611)** cuts a little slower than the standard blade, but leaves a smoother edge. Package of 3
- **Standard grit (#03612)** original equipment on new saws. Package of 3
- **Super Power grit (#03613)** coarse grit results in a faster cut! Package of 3
- **Slitting Blade Standard grit (#03615)** a 25% narrower kerf makes for faster cutting. Package of 3



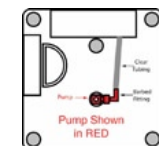
- **Repl Guide Blocks (#0362)** includes 1 upper and 1 lower guide



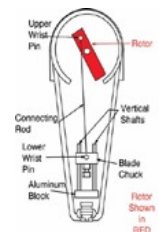
- **Blade Chuck (#03621)** does not include wrist pin



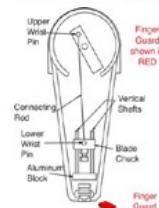
- **Water Pump (#03622)**



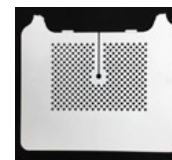
- **Upper Rotor (#03623)** includes pin and bearings



- **Finger Guard (#03624)**



- **Omni Replacement Work Surface (#03626)**



Gryphon Band Saw

THE GRYPHON MODEL "C-40" DIAMOND BAND SAW (#03501) is an AMERICAN MADE band saw that out performs the competition! Check these features:

- Made in USA.
- Top mounted motor 1/3 hp DC direct drive motor. No drive belts!
- Single knob adjustment.
- Blade speed of 40 mph.
- Large work surface. 12 x 12" is BIG.
- Giant water reservoir. Easy to clean.
- Fewest parts of any saw for greater reliability and easier maintenance.
- One Year Warranty on saw (except blades and guides).

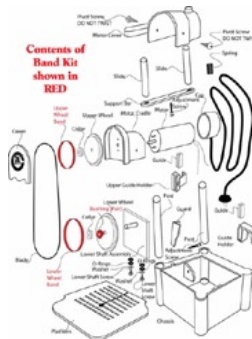


GRYPHON BAND SAW REPLACEMENT BLADES & PARTS:

- **Black Diamond Blades (#03512)** from Gryphon, will fit the C-40 and earlier Model 350 band saws from Gryphon. Will also fit Diamond Laser 1000, Speedster and DB-100 band saws by Inland and Diamond Tech. Sold in a pack of two blades
- **Black Diamond Fusers Blade (#03516)** is given an extra heavy coating of diamond on a heftier backing. If you will be cutting a lot of thicker glass (like you get when you fuse a few layers together) you will appreciate the faster cutting you will get with this blade



- **Replacement Guide Blocks (#03541)** for your Model "C-40" or "C," keep your blade running straight and true. Package of three.
- **Upper Guide Block Holder (#03542)** holds accessory upper guide block in place. If your Model "C" saw doesn't have one, pick one up for better performance! Guide blocks (#03541) sold separately.
- **Replacement Nylon Nut And Bolt (#03543)** to hold bottom wheel assembly in place
- **Tread For Upper Wheel (#03544)**
- **Tread For Lower Wheel (#03545)**
- **Upper Wheel And Tread (#03546)**
- **Lower Wheel And Tread (#03547)**
- **Maintenance Kit (#03548)** includes treads for the upper and lower wheel and bushings for the lower wheel



Gryphon Miter Saw

GRYPHON CAME SAW (#0370) This fast cutting saw makes easy work of cutting zinc, brass or copper came and rebar of all types.

The composite blade does not get dull like regular steel (even chrome steel) blades and cuts without pooping out! If you have ever tried to cut Brass Came with any steel blade, you will know it doesn't take too many cuts to ruin the blade. The composite blade in Gryphon's Came Saw has been specially designed to cut Brass Came quickly, without dulling! Check these features:

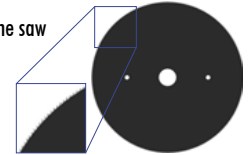
- 6000 RPM blade speed
- Gutsy 1.1 peak hp DC motor won't bog down when cutting steel or brass
- 5.625" diameter composite blade
- Safety see-thru blade guard
- Mitres neatly to 45°
- Cuts materials to 3/4" thick/wide, even at 45° miter
- "Chop Saw" action for fast, safe cutting.
- 1 year warranty.

If you use Zinc, Brass or any kind of Re-bar, you will want this saw!

GRYPHON MITER SAW REPLACEMENT BLADES:

- **Composite Blade (#0371)** original equipment on came saw
- **Fine Toothed Blade (#0372)** for use with soft metals (lead came), plastic and wood. 16TPI

NOTE: Composite Blades *not* recommended for lead came.



TECHNIGLASS THE GRINDER®

TECHNIGLASS' evolutionary new **GRINDER®** (#TG TG) offers an advancement in what is considered to be state-of-the-art in grinder technology. This contemporary, low profile design includes an extensive list of features including:

- Spacious 12" x 16" (30 x 40 cm) work surface
- Brushless 4500 RPM DC motor producing 1/6 HP with 57 oz-in (0.4 N/m) of torque
- Quick-Fit Bit® System 1" and 3/4"
- Aqua Flow System® and Brush
- Dual (110-220v) voltage for domestic & international use
- LumiShield® LED illuminated lens-grade eye shield
- Threaded, open-tip shaft for 1/4 and 1/8 bit attachment
- Removable water tray for easy cleanings
- Ez-Fit elevated work surface (6"W x 5"D x 1.3"H) enables easier use of 1/4" and 1/8" grinding bits. Comes equipped with its own water reservoir and Aqua Flow System®
- Accessory drawer to store grinding bits and tools
- Vibration dampening technology provides added stability and an whisper quiet operation
- Industry's Best 2 yr Warranty



The Aqua Flow System™

Neat, clean and no more messy crumbling sponges!

The Aqua Flow System features brush bristles attached to a highly durable plastic holder. The self-locking holder quickly and easily snaps into place on the most popular grinders. The Aqua Flow system provides continuous water to your grinder head, while simultaneously cleaning the grinding head of sludge and debris. Choose from:



- **Glastar Super Star & Diamond Star grinders (#TG AFS D/S)** - includes 2 brushes
- **Glastar All Star grinders (#TG AFS A)** - includes 2 brushes
- **Inland grinders (except Impulse) (#TG AFS I/S)** - includes 2 brushes
- **Replacement Brushes (#TG AFS B)** - pack of 3 brushes

Quick Fit Bit System™

This unique system of grinding heads utilizes a reusable bit holder and high-tech diamond sleeves to create a cost effective solution for replacing your traditional grinding heads.

Key benefits include:

- Made in USA.
- Low cost diamond sleeves (nearly half the cost of comparable grinding heads)
- Bit holder is made from high impact plastic, eliminating oxidation and possibility of seizure of the bit on the grinding shaft.
- Bit sleeve is cushioned by an industrial elastomer on the bit holder which absorbs and diffuses vibration and reduces glass chipping
- No tools or keys are needed to remove or re-position the grinding bit – just flip the locking lever up to re-position the grinding bit or remove the bit holder; and flip the lever down to lock everything in place.



100 SERIES HOLDERS – Designed to fit all Glastar (except G-8 AllStar), Gyphon and Inland grinders. Contains both a Bit Holder and a Standard Grit Grinding Sleeve:

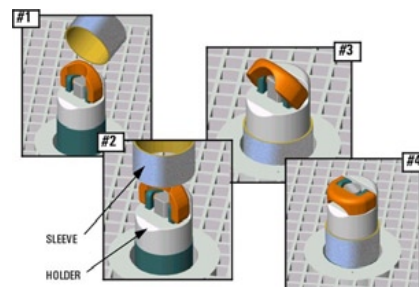
- **3/4" Quick Fit Bit System (#TG QFBS 100 34)** - includes Standard Grit (100/130) sleeve
- **1" Quick Fit Bit System (#TG QFBS 100 1)** - includes Standard Grit (100/130) sleeve

200 SERIES HOLDERS – Designed to fit the G-8 Glastar AllStar and Diamond Tech, Burk and European grinders. Contains both a Bit Holder and a Standard Grit Grinding Sleeve:

- **3/4" Quick Fit Bit System (#TG QFBS 200 34)** - includes Standard Grit (100/130) sleeve
- **1" Quick Fit Bit System (#TG QFBS 200 1)** - includes Standard Grit (100/130) sleeve

GRINDING SLEEVES – Can be utilized on either series of Bit Holders above. (Choose same size sleeve as holder)

- **3/4" Rapid Quick Fit Bit Sleeve Only (#TG QFB 34 R)** - 80/100 grit
- **3/4" Standard Quick Fit Bit Sleeve Only (#TG QFB 34 S)** - 100/130 grit
- **3/4" Fine Quick Fit Bit Sleeve Only (#TG QFB 34 F)** - 200/230 grit
- **1" Rapid Quick Fit Bit Sleeve Only (#TG QFB 1 R)** - 80/100 grit
- **1" Standard Quick Fit Bit Sleeve Only (#TG QFB 1 S)** - 100/130 grit
- **1" Fine Quick Fit Bit Sleeve Only (#TG QFB 1 F)** - 200/230 grit



GLASTAR GRINDERS

Simply The Finest Grinders On The Market!

GLASTAR is the originator of the diamond glass grinder. The combination of quality and performance make Glastar a market leader. The four models offered are tailored to meet the needs of all glass workers, from the hobbyist to the professional studio. All Glastar Grinders are UL Listed, and are backed by the factory's **five year, no fault warranty** which covers parts and labor.



The **G-8 ALL-STAR GRINDER (#0148)** is a state of the art grinder with these outstanding features:

- 11"x13" work surface, 20% larger than any other grinder
- permanently lubricated 1/9 HP, 3560 RPM motor with 42 oz-in of torque!
- 1" bonded grinding head and 1/4" PBS™ bonded grinding heads
- special mini-surface with water pump for your 1/4" head
- 8"x9" glass eye shield, more scratch-resistant than plastic
- built-in accessory drawer for storing spare bits, allen wrenches and sponges
- adjustable Straight Edge Guide
- convenient coolant drain system, rubber splash guard and 3 sponges



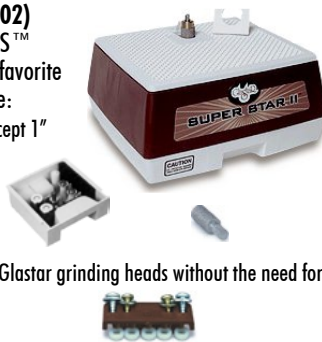
Everything's here, right out of the box. You need to buy nothing else. This professional grinder is designed to take continuous, heavy duty work. Used in art glass studios around the world. Famous for trouble-free performance.

This is THE grinder for serious studio work.

The **GLASTAR G-12 SUPER STAR II (#01702)**

A sturdy housing, strong motor and a 3/4" PBS™ bonded grinding bit makes this grinder a the favorite of the serious hobbyist. Other features include:

- 9-1/4" x 8-1/4" work surface with insert to accept 1" grinding heads
- permanently lubricated 1/12 HP, 3450 RPM motor generating 19 oz-in of torque
- 3/4" PBS™ bonded grinding head
- threaded shaft accepts 1/4 (included) or 1/8" Glastar grinding heads without the need for an adaptor
- adjustable Straight Edge Guide
- built-in accessory drawer for storing spare bits, allen wrenches and sponges
- convenient coolant drain system, rubber splash guard and 3 sponges



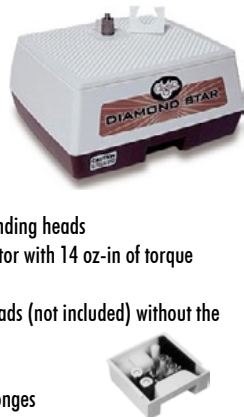
The Super Star II is purchased by not only hobbyists, but by many studios as their "second" grinder or their classroom grinder. **Glaster's reputation for building a fully featured, strong, long lasting grinder is well demonstrated in this model!**

The **G-14 DIAMOND STAR GRINDER (#01751)**

is the perfect first grinder. It has an affordable price with the quality and features only on a Glastar product.

The Diamond Star Grinder uses the same case as the Super Star II, but with a slightly smaller motor and an economical plated bit.

- 9-1/4" x 8-1/4" work surface with insert to accept 1" grinding heads
- reliable, permanently lubricated 1/18 HP, 3450 RPM motor with 14 oz-in of torque
- 3/4" plated grinding head
- threaded shaft accepts 1/4 and 1/8" Glastar grinding heads (not included) without the need for an adaptor
- convenient coolant drain system
- built-in accessory drawer, rubber splash guard and 3 sponges



This is the perfect grinder for the hobbyist who wants the best quality, but who is on a tight budget!

GLASTAR'S G-9 DISK GRINDER (#0149) is for the serious studio, or for special applications. Perfect choice for artists who regularly need to make accurate straight edges, such as for boxes, lampshades and panels.

- permanently lubricated 1/9 HP, 3560 RPM motor generating 42 oz-in of torque
- durable molded housing
- versatile 6" 180 grit diamond disc
- water supply basin
- combination splash guard and 15 degree bevel guide



GLASTAR REPLACEMENT DIAMOND DISCS for their G-9 Disk Grinder come in these diamond grits:

- **180 GRIT DISK (#0146)** comes as standard equipment on the G-9.
- **360 GRIT DISK (#0145)** fine grit disk cuts very smooth, but slower.
- **600 GRIT DISK (#0144)** extra fine grit!



Glaster Bevel Star

All-in-One Grinding and Polishing Station

The **BEVEL STAR SYSTEM (#0140)** is a complete beveling station designed for grinding and polishing of straight edges and outside curves. With it you can create, repair, and hand bevel glass projects yourself simply and easily.

- strong 1/4 HP Variable Speed motor, adjustable from 0 to 2500 RPM
- direct water hook-up with an adjustable waterspout to direct water flow to any area of the grinding disc
- splash guard controls water overspray
- flush mount disc system allows use of the entire 6" diamond grinding surface and convenient quick change between grinding and polishing steps
- includes 120 grit Diamond Genesis Pad for roughing, 400 grit Diamond Genesis pad for smoothing, Diamond resin pad for pre-polish and optical quality polyester felt polishing pad with 1/2 lb. of cerium oxide polishing compound.



Glastar Replacement Bits

Genuine Glastar grinding bits, with their Patented Bonding System, are your assurance of long bit life. All bits (except for Starlet bits) feature a full 5/8" band of diamond grit giving you five working surfaces. A Glastar bit will outlast an Inland 3 to 1! Glastar bits will fit Glastar, Inland, Gryphon and red-case DTI grinders. For maximum bit life, use grinder coolant (#0159)

1" REPLACEMENT BIT FOR G-8, G-6 & G-4, estimated bit life of 250-400 hours of grinding. Will also fit SuperStar and DiamondStar grinders with newer work surfaces, Inland Wizard and Impulse, red case DTI Power Max and Diamond Max and Gryphon Twister grinders.

- **STANDARD GRIT (#0156)**
- **FINE BIT (#0157)** cuts slower, but is less likely to chip soft glass like window glass, mirror and antiques.
- **COARSE 60 GRIT BIT (#0185)** grinds faster but it will leave a bit rougher edge on your glass



3/4" REPLACEMENT BIT FOR G-14, G-12 & G-7 MODELS, also fits Inland's Wiz, Wizling and Aero and Gryphon's Gryphette grinders

- **STANDARD GRIT (#0151)**
- **FINE BIT (#0153)** for a smoother grind
- **COARSE 60 GRIT BIT (#01516)** grinds faster but rougher



G-5 REPLACEMENT BITS, 5/8" diameter, as supplied with Glastar Starlet grinder. 60-100 hours of grinding.

- **STANDARD GRIT (#0176)**
- **FINE BIT (#0171)** for a smoother grind



DRILLING/GRINDING BITS can be used for grinding small inside curves down to 1/16" radius or to drill holes in glass. These bits SCREW onto the motor shaft on the G-5, G-6 and G-8 models. You must use the adaptor (#0152) below for all other Glastar, Inland, Diamond Tech and Gryphon grinders.

- **1/4" STANDARD GRIT (#0177)**
- **1/4" FINE GRIT (#0161)**
- **1/8" STANDARD GRIT (#0155)**
- **1/8" FINE GRIT (#0154)**
- **BIT ADAPTOR (#0152)**, fits the 1/4" or 1/8" bits to older Glastar G-12 & G-14 models plus Glastar's G-7, G-4, G-3 grinders and all Inland, DTI and Gryphon grinders. Adaptor slides over the motor shaft and the 1/4" or 1/8" bit screws into it. Buy just once. **USE ONLY WITH GLASTAR BITS.**



SPECIALTY BITS are available in standard (100) grit. Fits grinders that accept 3/4" bits.

- **LAMP HEAD (#01517)** chamfers the edge of your glass for making panel lamps. Use gentle 9° section for 15 or more sided lamps, the 18° section for lamps of less than 15 sides.
- **RADIUS EDGER (#01518)** works great for smoothing the top and bottom edges of the cut edge. A great help when making mosaics. PLUS you get plenty of grinding surface above and below the radius notch.
- **RIPPLE HEAD (#01519)** takes thick or irregular glass and grinds the edge to fit inside lead or zinc came. Has plenty of diamond surface on the lower section for regular grinding.
- **JEWELRY BIT (#0186)** 220 grit bit designed for crafters making fused jewelry. The bit will create a groove around the edge of your fused piece, preparing it for 16 or 18 gauge wire wrapping. Fits grinders taking a 1 or 3/4" bit.



Glastar Accessories

EYESHIELD SUPPORT (#0163) holds piece of regular window glass. Fits any grinder with an open grid work surface. (Won't fit G-5 Starlet grinder)



STRAIGHT EDGE GUIDE (#0164) fits any grinder with an open grid work surface. (Won't fit G-5 Starlet grinder)



GLASTAR COMBINATION EDGE SET (#01645) works with any Glastar or Inland open grid top grinder. This set contains 3 components that will help you with your stained glass tasks: [1] straight edge guide (which requires no tools), [2] 45° mitering block (perfect for box construction), and [3] 10° lamp guide (to back bevel your lamp pieces so that they fit together closer creating a stronger lamp which requires less solder).

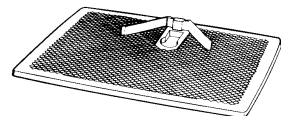
UNIVERSAL MINI TABLE FROM GLASTAR (#0167) supports your glass as you grind with the 1/4" head. A built-in water well keeps your bit cooled for up to 30 minutes of grinding time. Fits all grinders with an open grid surface (does not fit G-5 Starlet).



PLASTIC EYESHIELD (#0178) is molded of clear plastic. Every grinder should have one. Fits all Glastar models except G-8 and G-9.

REPLACEMENT WORK SURFACES make your grinder look brand new, makes grinding easier. All replacement surfaces include original splash guard.

- **LARGE OPEN GRID REPLACEMENT SURFACE FOR G-8 (#0169)** Order small (upper) surface below.
- **SMALL OPEN GRID REPLACEMENT SURFACE FOR G-8 (#0168)** replaces the small elevated (and waterpump-cooled) work surface on the G-8 AllStar model ONLY.
- **REPLACEMENT TOP FOR G-7, G-12 AND G-14 (#0172)** comes with 3/4 and 1" inserts.
- **REPLACEMENT TOP FOR G-5 STARLET (#01695)**



GLASTAR GRINDER ACCESSORY KIT (#01646) has all those little grinder parts in one convenient kit! Now, you will always have extras on hand when you need them. Kit includes 3/4" top plate insert, 1" top plate insert, four grinder head screws, Allen key, six grinder sponges and two rubber drain plugs.



DIAMOND DRESSING STONE (#03625) rejuvenates worn diamond blades and grinding bits. By cutting off a sliver of this dressing stone, the stone will sharpen the diamonds and remove build up from your blade and grinding bits, resulting in a restoration of cutting and grinding action. Dressing Stone is 1/2x1/2x6 inches long. Good for many, many blade treatments.



GRYPHON GRINDERS

The **GRYPHON CONVERTIBLE (#0355)** offers an "evolutionary" advance in comfort. By simply rotating the base, the grinding surface converts from horizontal to inclined. For the first time, you can sit while grinding. The inclined work surface reduces fatigue because you no longer need to stoop over your work to see what you are doing. Features:

- Powerful DC motor
- Large 10 $\frac{3}{4}$ x 13 $\frac{3}{4}$ " work surface
- Face shield & second story platform
- Built-in water pump provides spongeless cooling for better bit life for all attached grinding heads
- Supplied with $\frac{3}{4}$ & 1" Gryphon Slip-on bits, the easiest bits to change. Requires no tools or levers to change bits AND the Slip-on bits will allow you to still attach your 1/4" and 1/8" bits without having to remove your larger head first!
- **Five** year limited warranty



Choose your comfort "level".



The **GRYPHETTE (#0356)** offers the best value in a glass grinder today. The small enclosure houses a surprisingly powerful DC motor. Features:

- Powerful DC motor – has more power than competitors' best grinders!
- Compact 6 $\frac{3}{4}$ x 6 $\frac{3}{4}$ " work surface
- Supplied with a 3/4" grinding bit
- Accepts all standard bits
- **Five** year limited warranty



GRYPHON WET BELT SANDER

GRYPHON BELT SANDER (#0375) is designed specifically for grinding and polishing large glass surfaces. Perfect for trueing straight edges on any sized piece or for smoothing the edges on larger work, such as bowls. The belt offers 90 square inches of grinding surface, and makes quick work of your biggest projects. This new tool is indispensable for the warm and hot glass artist - you will use it often. A small platform helps steady your work and tilts for easy beveling. A variety of belts are available from coarse for fast grinding to ultra smooth for polishing.

Check these features:

- 3500 RPM DC motor
- Simple construction with few moving parts
- Direct drive - no belts or pulleys
- Convenient water reservoir under the lower wheel keeps belt wet with a standard kitchen sponge
- 90 square inches of grinding surface / belt
- 3 belts included - assorted grits
- **One (1) Year Warranty**



PREMIUM REPLACEMENT BELTS - sold individually. Premium belts have a smoother seam for extended life. Belts measure 3x30"

- **Cork Belt (#03754)** premium belt used for polishing
- **80 Grit (#03761)** premium belt
- **120 Grit (#03762)** premium belt
- **400 Grit (#03763)** premium belt



The **GRYPHON STUDIO GRINDER (#0357)** offers top performance at a modest price. Its unique features make it easy to set up and use, and the powerful motor will never disappoint. Features:

- Powerful 1/5 hp, 3000 RPM DC motor that won't slow down even under heavy use.
- Coolant tower delivers just the right amount of clean water to the grinding head at all times.
- Two grinding heads can be mounted at the same time, and both will be lubricated by the sponge even if the heads are different diameters.
- Large 9 x 9 $\frac{3}{4}$ " work surface.
- Convenient face shield is included with each grinder.
- **Five** year limited warranty



Gryphon Grinder Accessories

CONVERTIBLE/TWISTER WATER PUMP (#03554) includes hoses



Click here for installation instructions for the replacement water pump.

FACE SHIELD KIT (#03558) Kit contains clear face shield, upright supports, base and rubber wings. Fits all Gryphon grinders.

REPLACEMENT FACE SHIELD LENS (#03562) Just the clear face shield

GRYPHON CONVERTIBLE/TWISTER WORKSURFACE (#03559) Replaces your worn grinder top

GRYPHON STUDIO GRINDER WORKSURFACE (#03571) Replaces your worn grinder top

GRYPHON GRYPHETTE WORKSURFACE (#03561) Replaces your worn grinder top

Aanraku Twofer Grinding Bits

An economical alternative for all Inland, Glastar, Gryphon and red case DTI grinders. **Twofer bits are sold pre-packaged containing 2 identical bits.**



CAT#	DESCRIPTION
27000	3/4" STANDARD GRIT
27001	1" STANDARD GRIT
27002	1/4" STANDARD GRIT
27003	1/8" STANDARD GRIT
27004	3/8" STANDARD GRIT
27010	3/4" FINE (220) GRIT
27011	1" FINE (220) GRIT
27012	3/4" COARSE (60) GRIT
27013	1" COARSE (60) GRIT
27015	3/4" 600 GRIT
27016	1" 600 GRIT
27008	3/4" RIPPLE BIT - STD GRIT
27009	JEWELRY BIT - FINE (220) GRIT
27020	1/8" CORE DRILL BIT (for use in a drill press or hand-held drill)

Ripple Bit



Jewelry Bit

Durabits Grinding Bits

Offering a combination of a long lasting brazed bond at a reasonable price. These stainless steel grinding heads will fit all grinders with a 5/16" dia shaft including all Inland, Glastar, Gryphon and red case DTI grinders.

DURABITS

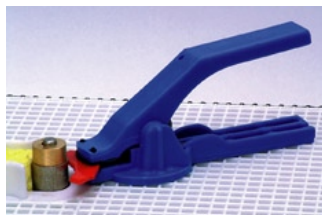
CAT# DESCRIPTION

3601	3/4" FINE GRIT
3606	1/4" FINE GRIT



Other Grinder Accessories

NICK'S GRINDER'S MATE (#08193) is the best way to hold small glass pieces while you are grinding. This ingenious tool uses rubber jaws and a strong spring to hold the glass in place while you guide the tool and glass along the grinding head. No more sore and cut fingers!



NICK'S GRINDER'S MATE REPLACEMENT JAWS (#08194) keeps your tool functioning like its new.

MORTON GRINDER TONGS (#0517) hold small pieces of glass while grinding. No more chipped nails or worn fingers. Holds the glass square to the grinder head for best control and to avoid chipping.



MOTOR SHAFT LUBRICANT (#3581) is approx 3cc of special "grease" to keep your grinder bit from seizing on the motor shaft. Apply liberally whenever changing bits.



DTI FOOT SWITCH (#2633) works with any grinder. Allows you hands free operation of your grinder.



MR. SPLASH GRINDER ENCLOSURE (#0529) from Morton Glass Works keeps your work area clean and dry. This vinyl splash guard unfolds to a 12x36" hinged guard. Has cut out for grinder cord. Works with all grinders. IDEA! Place your grinder on a Morton Glass Works Mini Surface Plus (#0500) and set up Mr. Splash around your grinder. Excess water from your grinder will then be caught in the grid, eliminating puddles on your work bench.



Mini Surface Plus
sold separately.

GLASS CUTTERS

GLASS CUTTERS are the most basic tools in stained glass crafting. Our selection ranges from the time honored steel wheel Fletcher cutters to the long lasting self-oiling Supercutters and oil-less MacInnes cutters.

MacInnes Cutters



MacInnes has earned a much deserved reputation of engineering and manufacturing of quality glass cutters beyond compare. These cutters have a loyal following that once you try these cutters you may never use a cutter from any other company.

MACINNES CUTTER HANDLE ONLY (wheel sold separately) choose from:

- **LEFT HANDED VERSION (#MAC HL)** where else can you find a cutter engineered for lefties!?!
- **RIGHT HANDED VERSION (#MAC HR)**



PRO-SCORE™ CARBIDE WHEELS:

WHEEL ANGLE	CAT# 5/32" DIA	CAT# 7/32" DIA	MFG #
105°	MAC W51	MAC W71	1
115°	MAC W52	MAC W72	2
125°	MAC W53	MAC W73	3
134°	MAC W54	MAC W74	4
138°	MAC W55	MAC W75	5
145°	MAC W56	MAC W76	6

The lower the wheel angle the "sharper" the cutting head (ie. better for hard glass such as some opals and selenium colors). The #4 (134°) wheel is more of a general purpose type wheel. A 5/32" dia wheel is more popular in stained glass, requiring less hand pressure and follows pattern lines more easily.

For specialty cutting the #1 wheel is very useful for selenium reds, yellow and oranges and thin rolled glass.

The #6 wheel is especially useful for Bullseye 4mm and Spectrum 5mm fusible glass and also thicker plate glass.

PRE-ASSEMBLED MACINNES CUTTERS with the most popular wheels already attached to cutter handle. Choose from:

- **RIGHT HAND HANDLE AND #4 5/32" WHEEL (#MAC CR4)**
- **LEFT HAND HANDLE AND #4 5/32" WHEEL (#MAC CL4)**
- **RIGHT HAND HANDLE AND #1 5/32" WHEEL (#MAC CR1)**
- **LEFT HAND HANDLE AND #1 5/32" WHEEL (#MAC CL1)**

MACINNES REPLACEMENT PARTS:

- **RIGHT HAND CLIP (#MAC XCR)** screw sold separately
- **LEFT HAND CLIP (#MAC XCL)** screw sold separately
- **SCREW FOR CLIP (#MAC XS)**
- **CARBIDE AXLE FOR WHEEL (#MAC XA)**

HELPFUL HINT: MacInnes has engineered and manufactured their cutters to eliminate the need for oil. Quality materials and precise manufacturing provide you with a cutting wheel that will last a LONG time without oil. No oil means less mess and less cleanup ... an especially big plus for fusers!

Supercutters By Toyo

SUPERCUTTERS feature automatic oil feed which provides continuous lubrication to a sharp carbide wheel. Cutter oil is stored in the handle. The cutting head is easily replaced. Available in four styles.

COMFORT GRIP ACRYLIC SUPERCUTTER (#0859) is shaped to be held in the same fashion as a pen. Available in red, orange, yellow, green, blue or purple.



PENCIL STYLE BRASS SUPERCUTTER (#0858B) is self oiling when pressure is applied and has a durable brass body with cross hatched metal barrel for a sure grip made to last!



THOMAS GRIP SUPERCUTTER (#0861) is a small, easily held Supercutter. The unique design can be held in two different positions: with your index finger over the top, or with the web between your thumb and index finger on the top. Can be used for "push" or "pull" cutting. **The light weight and comfortable grip has made this Supercutter very popular.** Available in red, orange, yellow, green, blue or purple.



PISTOL GRIP SUPERCUTTER (#0860-V) has an easy to hold handle, making this a popular cutter, especially for continuous cutting or arthritic hands. **The most popular Supercutter! This is the best cutter for cutting larger sheets of glass.** Comes supplied with "Tap Wheel" cutting head (#0862-V). Available in neon yellow, green, blue or purple.



TOYO TRAC WHEEL SUPERCUTTERS (#0846) feature mirco-notches along the edge of the wheel to provide traction for the wheel as it rolls on the glass. This reduces the chance of the wheel skipping, increases wheel life, creates cleaner scores and breakouts while requiring less scoring pressure. The notches which create traction for the wheel are measured in microns and are not visible to the naked eye so there will be no effect on edge quality. Available in two styles:

- **TRAC WHEEL ACRYLIC SUPERCUTTER WITH SMALL HEAD (#0846)**



- **TRAC WHEEL BRASS SUPERCUTTER WITH WIDE HEAD (#0847)**



REPLACEMENT HEADS FOR TOYO SUPERCUTTERS:

- **SMALL HEAD TC10 (#0862)** OEM cutting head on Thomas Grip (#0861), Brass Pencil-Style Supercutters (#0858B) and the Comfort Grip Supercutters (#0859).
- **LARGE HEAD TC17 (#0863)** follows a straight edge better.



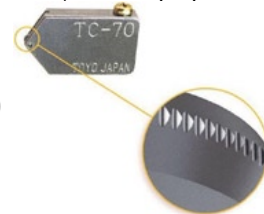
TAP WHEEL HEADS FOR TOYO SUPERCUTTERS have a revolutionary cutting wheel that "taps" your glass as it scores producing a deeper score with less effort. *These Tap Wheel Heads will fit the 6 Toyo Supercutters at left (Thomas Grip, Brass Pencil-Style Supercutters, Comfort Grip Supercutters, Pistol Grip Supercutters and Trac Wheel Cutters).*



- **SMALL TAP WHEEL (#0862-V)** OEM on Tap Wheel Pistol Grip Cutter (#0860-V)
- **LARGE TAP WHEEL (#0863-V)** allows you to follow a straight edge better.

TRAC WHEEL HEADS FOR TOYO SUPERCUTTERS feature mirco-notches along the edge of the wheel to provide traction for the wheel as it rolls on the glass. This reduces the chance of the wheel skipping, increases wheel life, creates cleaner scores and breakouts while requiring less scoring pressure. The notches which create traction for the wheel are measured in microns and are not visible to the naked eye so there will be no effect on edge quality. *These Trac Wheel Heads will fit the 6 Toyo Supercutters at left (Thomas Grip, Brass Pencil-Style Supercutters, Comfort Grip Supercutters, Pistol Grip Supercutters and Trac Wheel Cutters).*

- **SMALL PATTERN TRAC WHEEL (#0848)** OEM on Trac Wheel Acrylic Cutter (#0846)
- **LARGE/WIDE STRAIGHT TRAC WHEEL (#08481)** allows you to follow a straight edge better. OEM on Trac Wheel Brass Pencil Cutter (#0847)



TOYO "TAP WHEEL" THICK GLASS SUPERCUTTER (#08601) has an easy to hold handle and a Tap Wheel cutting head. The Tap Wheel has eight "cams" inside the axle bore of the cutting wheel which causes eight "taps" per revolution, resulting in a superior score.



REPLACEMENT HEAD:

- **LARGE TAP WHEEL (#08603)** Replacement cutting head for Toyo Thick Glass Supercutters (#08601).

TOYO POWER BREAKER (#08602) produces a 16 to 1 leverage ratio, requiring only light hand pressure to run scores in glass up to 3/4" thick.



CUSTOM GRIP (#0856) has a tapered and molded barrel that fits all hands and can be gripped several ways. The "saddle" is adjustable four ways and helps you apply even pressure to your score without undue finger fatigue. Comes with "Tap Wheel" cutting head. Available in red, orange, yellow, green, blue or purple.

Only use Tap Wheel Replacement heads (#08561).

REPLACEMENT HEAD:

- **SMALL TAP WHEEL TC-21V (#08561)** Replacement head has a revolutionary cutting wheel that "taps" your glass as it scores producing a deeper score with less effort. *Fits ONLY Toyo Custom Grip Supercutters (#0856).*



Bargain Carbide Cutters

BARGAIN CARBIDE GLASS CUTTERS feature an automatic oil feed providing continuous lubrication to a sharp carbide wheel. Cutter oil is stored in the handle. The cutting head is easily replaced.

Available in two styles:

- PENCIL STYLE (#08698)
- PISTOL GRIP STYLE (#08699)



REPLACEMENT CUTTING HEADS (#08695) for the Bargain Carbide Cutters (above)

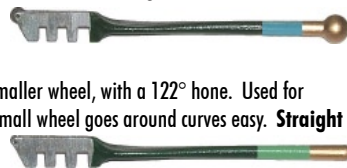
Cutters By Fletcher-Terry

Fletcher-Terry is the originator of the wheel type glass cutter.



STEEL WHEEL CUTTERS are recommended for the beginner.

- **FLETCHER #01-128 (#08521)** Our most popular Fletcher cutter has a die-cast metal handle which is light and comfortable to hold. The 114° cutting wheel is made for hard surfaced glass such as opalescent glass. **With ball end and BLUE band.**
- **FLETCHER #01-131 (#08541)** has a smaller wheel, with a 122° hone. Used for cutting smaller, odd-shaped pieces as the small wheel goes around curves easy. **Straight handle with GREEN band.**



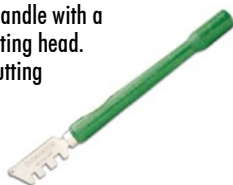
CARBIDE CUTTERS last up to 10 times longer than steel wheel cutters and carry a moderate price tag. Both have 114° (sharp honed) wheels for use with stained glass. Silver bands.

- **FLETCHER CARBIDE CUTTER, LARGE WHEEL (#08551)** with large wheel for general straight line cutting. This is Fletcher's #01-216 (replaces #CA-6). Straight handle, no ball end.
- **FLETCHER CARBIDE CUTTER, SMALL WHEEL (#0857)** Fletcher #01-228 (replaces CA-96), for smaller or curved pieces. With ball end handle



DIAMANTOR GLASS CUTTER (#08719) solid wood handle with a ground steel cutting wheel. 3 breakout notches in the cutting head. A great general purpose glass cutter for everyday use. Cutting angle 130 Degrees.

DIAMANTOR



Specialty Cutters And Accessories

These cutters make tedious jobs easier.

FLETCHER CIRCLE AND OVAL CUTTER (#0868) takes the headache out of cutting ovals. Cuts beautiful ovals with little effort or setup time. Cuts circles from 4½ to 21", and any oval with a height of up to 3" larger than the width, up to 21x24".



REPLACEMENT WHEEL (#08681) easily snaps into place

LENS CIRCLE CUTTER (#0865) allows you to quickly cut circles in glass from 3/4 to 5" diameter. Takes little or no practice. Push down on the crank and turn! It's fast, it's easy!



REPLACEMENT CUTTING HEAD/TURRET (#08651) for Lens Cutter has 3 sharp cutting wheels.

COMBINATION STRIP & CIRCLE CUTTER (#0864) by Glastar, cuts equal size strips or perfect circles. Cutter head has six steel wheels for long life. Does circles 3 to 24" diameter, strips from 1/2 to 12" wide.



REPLACEMENT CUTTER HEAD/TURRET (#0866) has six sharp steel wheels.



SILBERSCHNITT PROFESSIONAL CIRCLE CUTTER is a top of the line circle cutter featuring brass construction, suction cup pivot, large, comfortable swivel knob cutter head and the capacity to make circles from 2½ to 40" in diameter. The cutter head has six cutter wheels which is nearly a lifetime of circle cutting. Precision crafted in Germany by Silberschnitt, one of the world's largest glass machinery companies.

- **24" Circle Cutter (#08679)** cuts circles from 2-7/8 up to 24" in diameter
- **48" Circle Cutter (#08678)** cuts circles from 2-7/8 up to 48" in diameter



REPLACEMENT CUTTER HEAD/TURRET (#0866) has six sharp steel wheels.

G2 GENERATION GREEN BOTTLE CUTTER KIT

(#08711) is made from recycled aluminum. The g2 is lightweight and allows you to easily score and cut discarded bottles and wide-mouth jars in 3 steps. Its 6 wheel cutting head will let you cut hundreds of bottles. Using the g2 Bottle Cutter you can turn old glass bottles and jars into glass sculptures, vases, lamps shades, votive holder or fashion anything you can imagine.



Glass Drills

DIAMOND GLASS DRILLS BY GLASTAR can be used in any portable electric drill. Each drill will make dozens of holes using water as a coolant. Three sizes are available:

- 1/8" (#0180)
- 1/4" (#0181)
- 3/8" (#0182) will allow standard threaded rod to pass, perfect for lamps or clocks



MICROMITE DIAMOND DRILLS are perfect for drilling tiny holes in glass (fused jewelry, ...) with a Dremel tool. Industrial diamonds are metal bonded to steel shaft. Must be water cooled. Available in packs of three:

- 1mm (pack of three) (#0183)
- 2mm (pack of three) (#0184)



GRYPHON DIAMOND CORE DRILLS are a Chinese made, economical choice. Drill in a wide range of materials including glass, ceramic, marble, plastic, and fiberglass. Each Gryphon CORE DRILL has 30mm shank length and 70mm overall length.

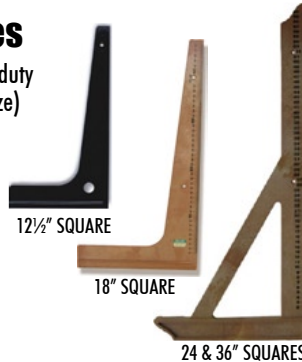
CAT#	NOMINAL OD	ACTUAL OD	SHANK DIA
0330	1/8"	4mm (0.16")	4mm
0331	1/4"	6mm (0.24")	6mm
0332	1/2"	12mm (0.47")	8mm
0333	3/4"	18mm (0.71")	8mm
0334	1"	25mm (0.98")	12mm
0335	1-1/4"	32mm (1.26")	12mm
0336	1-1/2"	40mm (1.57")	12mm
0337	2"	50mm (1.97")	12mm



Squares And Straight Edges

GLASS CUTTING SQUARES made from heavy duty plastic composites and all (except the 12-1/2" size) are tan in color and marked with inches and centimeters for reference. Order:

- 12 1/2" CUTTING SQUARE (#0850) in black heavy duty plastic.
- 18" CUTTING SQUARE (#08511)
- 24" CUTTING SQUARE (#08512)
- 36" CUTTING SQUARE (#08513)



GLASS CUTTING STRAIGHT EDGES are marked in inches. Comes with cork backing. Three sizes are available:

- 18 x 1-1/8" ALUMINUM CORK BACKED STRAIGHT EDGE (#08531)
- 24 x 1-1/8" ALUMINUM CORK BACKED STRAIGHT EDGE (#08532)
- 48 x 2" ALUMINUM CORK BACKED STRAIGHT EDGE (#08534)

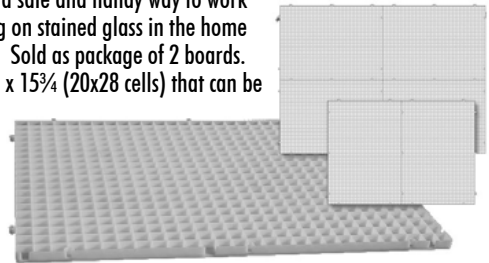


THE MORTON SYSTEM

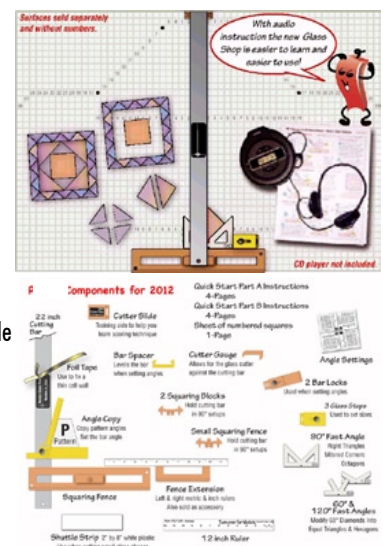
THE MORTON SYSTEM is an integrated collection of work surfaces, cutting and layout guides, glass breaking tools, and more. The Morton System has been engineered to work together giving the beginning hobbyist the advantages of a professional by providing increased efficiency.



MINI SURFACE PLUS (#0500) has a special design which collects glass chips that fall below the surface level, leaving the work area clean. Makes working on glass in the home a lot neater. The Morton Surface provides a base for use with the many available accessories, including the Safety Break System and the Portable Glass Shop. The fact that the surface is a safe and handy way to work on glass will make working on stained glass in the home easier and safer than ever. Sold as package of 2 boards. Each board measures 11 1/4 x 15 3/4 (20x28 cells) that can be interlocked using the tabs on the edges to create larger work surfaces.



THE NEW PORTABLE GLASS SHOP (#0504) consists of a system of plug-in fixtures for the Morton Surface that together are an advanced, but easy to use tool for cutting geometric shapes. Works with the Morton Surface above. The PGS is a real work saver when you have repetitive cutting to do, such as in lamps, or "diamond pane" windows. Setting up new designs for lamps is easy, as the PGS allows you to quickly adjust your angles using the Quick Angle accessory (included). Also includes a 22" cutting bar, reversible fence (for different thicknesses of glass), a ruler with english and metric measurements and new quick angles and more. **Comes with an easy to follow full color instruction booklet.**



FENCE EXTENSION (#05041) with ruler

STUDIO CUTTING BARS are useful when using the PGS with different Morton Surface configurations. Two sizes avail:

- 1 1/2 x 31" BAR (#0507)
- 1 1/2 x 15" BAR (#0506)

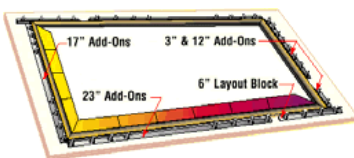


GLASS STOPS (#0513) are handy for multiple cuts, such as trapezoids for making lampshades. Sold individually.



SAFETY BREAK SYSTEM (#0515) Makes the tough cuts come out easy. This safe and VERY EASY System lets you start the break at any point along the score line. The degree of bend is controlled by the running buttons and running block. Pressure is applied precisely along the score line making difficult cuts easy. System includes two running buttons, and a running block, the "Morton Runner".

THE LAYOUT BLOCK SYSTEM replaces the wood board, wood strips, horseshoe nails and such. Just add a piece of wall board or ceiling tile for a base. Push pins hold the aluminum blocks in place. Easier and more convenient than old plywood and nails approach. Four versions are available:



- **LAYOUT BLOCK SYSTEM (#0510)** includes ten 6" aluminum blocks and 40 push pins for placement.

Expand this system with the following:

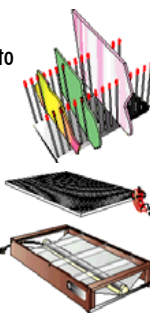
- **LAYOUT ADD-ONS (#0512)** with four 12" and four 3" aluminum blocks and 40 push pins for larger projects.
- **17" LAYOUT ADD-ONS (#0508)** has two 17" strips and 16 pins.
- **23" LAYOUT ADD-ONS (#0509)** come in a set of two 23" strips with 16 push pins.
- **EXTRA PUSH PINS (#05129)** come in a pack of 16 additional pins.

THE CIRCLE AND BORDER SYSTEM (#0528)

efficiently uses strip cutting and trapezoid making to create circular borders for your work. This system even includes a computer program on CD-rom that handles all the correct angle calculations and provides step-by-step video instruction.



MORTON GLASS CADDY (#0518) lets you rack a selection of glass on your table top to have at your finger tips. Easily holds up to 45 sq ft of glass.



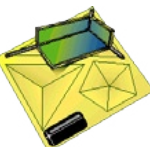
THE THRIFTY LITE (#0521) is a light box which works with the Mini Surface (not included). Constructed of hardwood and aluminum, with white reflecting liner, the Thrifty Lite assembles quickly and easily. Can be used for the "English" method of cutting, or if you turn your Mini Surface upside down, it works great for tracing patterns. Does NOT include fluorescent bulb (pick up at your local discount store).



THE CLEAN CUT (#0520) cuts and miters zinc and brass came quickly. Holds zinc came tightly as you saw (hacksaw not included).



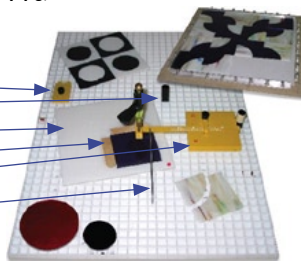
THE MORTON TWISTER (#0524) is used to twist wire or came neatly for decorative borders on suncatchers, lamps, jewel boxes, etc. Simple to use for great results.



THE ASSEMBLY TRAY (#0522) makes box assembly (or other 3-D project assembly) easy. Three indentations allow for several types of corners to be produced. With complete instructions and patterns.

TEENY CIRCLE SYSTEM (#0523) — use this nifty jig, a morton work surface and your own glass cutter to cut circles 6" or smaller quickly accurately and easily. Includes

- glass stop
- 2 cutter caddies
- plastic turn table (7-3/8 x 7-3/8")
- glass holding pad
- circle guide
- wire support rod



Note: Work surface, glass cutter, layout blocks and glass are not included

HAND TOOLS

In this section you will find a full variety of hand tools needed to do Stained Glass right!

Glass Working Pliers

BREAKING AND GROZING PLIERS are the most versatile plier in your tool box. The narrow jaws get into tight places. The curved lower jaw "reaches under" the score line, giving you leverage. The serrated jaws allow you to groze back any excess glass.

BREAKING AND GROZING PLIERS (#3888) are the most basic glass pliers. Best for breaking along the score line, and for grozing away any excess glass. They are 6" long, have 5/16" wide serrated jaws and vinyl cushion handles.



UPGRADED BREAKING AND GROZING PLIERS (#3886) are better quality B & G pliers. The nicer "fit and finish" on these make them a joy to work with. 6" long with 5/16" wide jaws and blue cushioned handles. You'll like them!

NARROW JAW BREAKING AND GROZING PLIERS (#3887) for delicate nipping and grozing. Jaws are just 1/8" wide for detailed work.



FAN OUT BREAKING AND GROZING PLIERS (#08115) are the finest quality pliers made anywhere. A must for any glass professional.



GLASS NIPPERS (#0802) are medium width breaking pliers. The jaws are 1/2" wide, and not serrated (not especially good for grozing). Useful for general glass breaking. 6-1/2" plastic coated handles.



GLASS BREAKERS (#3885) have a broad, 1" wide jaw. Use this plier for breaking off larger pieces of glass. 8-3/4" long overall.



RUNNING PLIERS act as a fulcrum where pressure is applied evenly on both sides of a score line, "running" the score through the glass very neatly. Runners work best on straight cuts, do well on gentle curves too.

STEEL RUNNING PLIERS are a lifetime tool. These heavy duty tools have cushion grip handles, plastic coated jaws (gentle on the glass) and special adjustment screw (to keep from crunching off the corners). Choose from:

- **STANDARD STEEL RUNNERS (#3889)**, 8-1/4" long.
- **PETITE STEEL RUNNERS (#3884)** are just 6-1/2" long. Fit smaller hands better than the 8" runners, above.



STEEL RUNNING PLIERS SOFT PLASTIC REPLACEMENT TIPS:

- **REPLACEMENT TIPS (#3884-TIP)** for metal jaws that are 3/4" wide
- **REPLACEMENT TIPS (#3889-TIP)** for metal jaws that are 7/8" wide



NOTE: Measure the width of the metal jaws (with the plastic tips removed) of your running pliers before ordering replacement tips.

HEAVY DUTY RUNNING PLIERS (#0817) An indispensable tool for running scores in 4 mm to 19 mm thick glass. It makes running fused glass a snap. Pliers are 9 1/4" overall length with a 2" wide jaw.



PLASTIC RUNNING PLIERS are lightweight, and are favored by many hobbyists who find them easier to handle. There is a variety to choose from:

- **THE GLASTAR GLAS-SNAPPER (#0814)** is a very compact 5-1/4" long. The narrow jaws allow you to run thinner cuts.
 - **PLASTIC RUNNERS (#0818)** have plastic handles with a little "give" to them, for a lighter touch on the glass. With an extra set of jaw inserts. 8" long.
 - **INLAND LIGHTWEIGHT RUNNING RUNNERS (#0818 US)** have plastic handles with a little "give" to them, for a lighter touch on the glass. With an extra set of jaw inserts. 8" long. Made in USA.
 - **RINGSTAR RUNNERS (#0819)** allow you to run curves in your glass ... something beyond the ability of standard running pliers. The unique jaw system lets you center the fulcrum along the score line, giving easy and dramatic results! Instructions are included. 9" long.
- REPLACEMENT JAWS (#08191)** are available.



Closeup of fulcrum point design

Pattern Shears

PATTERN SHEARS remove a small strip from your paper pattern to allow for the heart of the lead, or the foil on the edge of your glass. Shears from Mika International feature patented extra hard stainless steel blades designed to cut cleanly, right to the tip of the shears and are sturdy and sharp enough to cut card stock. All shears have comfortable molded plastic handles. Recommended for serious studio work while still economically priced.



MIKA LEAD PATTERN SHEARS (#0877) remove 1/16" of your pattern to allow for the heart of the lead.

MIKA FOIL PATTERN SHEARS (#0878) remove 1/32" to allow for a neat fit when working in copper foil. Many people don't think you need special pattern shears when working in foil. If you're one of them, just give one of these foil pattern shears a try. You'll save time and frustration when your work goes together so much nicer!

INLAND LEAD PATTERN SHEARS (#0880) remove 1/16" of your pattern to allow for the heart of the lead.

THE TWO IN ONE PATTERN SHEARS (#0876), only from Mika International, give you the advantage of purchasing one tool for both jobs. The interchangeable middle blade allows you to cut both lead and foil patterns. Blade changes easily with special patented mechanism.



MOSAIC TOOLS fill the role of glass cutter and breaking plier in one tool. Quickly shape glass by nipping off pieces. Very useful where accuracy is less important than speed.

MOSAIC CUTTERS (#0803) can be used to trim small pieces off glass pieces and work better than grozing pliers. Use them to cut small pieces for mosaic work or to trim ceramic tile or agate. The clever design uses carbide disks to apply even pressure to both sides of the glass, causing the glass to snap evenly and cleanly. The carbide disks can be rotated (allen wrench not included) as they wear. Order **REPLACEMENT WHEELS (#08031)** when originals wear out.



TILE SCORER/RUNNER COMBO (#0805) have a carbide cutting wheel attached to narrow jaw running pliers. The sharp carbide wheel scores glass or tile and the pliers work well on small mosaic pieces.



Miscellaneous Tools

These are all the little hardware items you need for your work bench. All are basic materials every glass crafter will need.

CARBO SMOOTHING STONE (#0875) takes the rough edges off glass. Lay stone flat on work table and draw glass across serrated surface to smooth. Will do minor grinding as well. 10x2".



BENCH BRUSH (#0886) is a soft, long bristle brush for sweeping bits of glass off the work bench.



GLAZING HAMMER (#0885) is designed with hard plastic and soft rubber faces. Use rubber face to tap glass in place when working in lead came. Hard plastic face drives horseshoe nails. Sturdy handle. Real nice.



LEAD VISE is made for STRAIGHTENING lead came. Don't STRETCH came, just pull enough to get the lead straight (pulling too far takes the temper out). Holds lead securely; won't pinch fingers.

- **SPRING LOADED LEAD VISE (#08721)**



Lead Cutters

LEAD NIPPERS are the quick and easy way to cut lead came. They resemble ordinary wire cutters, but their specially ground cutting face nips your lead neatly. Cuts miters without any trouble. Spring loaded jaws. Use these for cutting lead ONLY.

- **HOBBYIST LEAD NIPPERS (#0839)** 5" long.
- **FAN OUT LEAD NIPPERS (#08405)** are known throughout the world as the finest quality at any price. 6" long. Every professional studio should have one!



LEAD KNIFE is the traditional method for cutting lead. Knives work better than nippers on wide lead. With weighted end for driving horseshoe nails.

- **LEAD KNIFE (#08361)** student quality knife. Approx 6½" in overall length.
- **DON CARLOS LEAD KNIFE (#08369)** professional quality. Super sharp stainless steel blade. Approx 8" in overall length. The best on the market!



EZE CUT LEAD CUTTER (#0838) is an easy way to neatly cut came. Very sharp blade with wooden handle makes for effortless cutting. Easy to make angled cuts! Shown ready for 45° cut.



THE STANTON STRETCHER (#08729) is the effortless way to stretch lead came. Mount the Stanton Stretcher at one end of the table, and a regular lead vise (#08721) at the other end. Place the lead in each, and stretch. The leverage of the Stanton Stretcher effortlessly straightens your came. **NOTE:** be sure to stretch only until the came is straight. *Overstretching will greatly weaken the came.* This quality tool is made in the USA by Glastar!



STANTON STRETCHER ADJUSTABLE RAIL ACCESSORY KIT (#08728) works with your Stanton Stretcher to help you stretch lead of any length. The sliding lead vise allows you to stretch a piece of lead from 4" to 6' and anywhere in between. The Rail System is purchased as an optional accessory for the Stanton Stretcher and does not include the Stanton Stretcher. This quality tool is made in the USA by Glastar!



WIRE BRUSHES are used to clean your lead prior to fluxing & soldering. Toothbrush style. Choose from:

- **BRASS BRISTLE WIRE BRUSH (#0781)**
- **STAINLESS STEEL BRISTLE WIRE BRUSH (#07815)** can do everything the brass bristle brush above can, but is especially handy for pate de verre work or in any application where you are scratching stuff that is stuck to the glass surface. The stainless bristles will not transfer metal to the glass surface as brass brushes do.



FLUX BRUSHES (acid brushes) for applying flux, patina, silver protector etc. Always use a clean brush for each project. Never go from your flux container to your patina bottle with the same brush. Order:

- **INDIVIDUAL FLUX BRUSHES (#0780)**
- **BUNDLE OF 12 FLUX BRUSHES (#07802)**
- **BOX OF 144 FLUX BRUSHES (#07804)**



PLASTIC FID (#0874) is a handy, multipurpose fid, 8" long. Opens lead came, burnishes foil, scrapes putty, lifts glass into place etc. Looks funny, but works serious.



WOOD FID (#08741) is the traditional tool used by your grandparents to open their lead channels. 5" long.



PLASTIC BURNISHER (#0879) is for rubbing your foil tight to the glass or for working with lead came. Sturdy white nylon, 8" long.



AANRAKU FOIL BURNISHER (#08195) is a simple and effective tool to quickly burnisher your foil.



HORSESHOE NAILS are used for holding work in place. Flat edges go easy on the glass. 2" size with large head. Comes as:

- **BAG OF 15 (#0883)**
- **BAG OF 100 (#0884).**



LEAD & GLASS STOP BLOCKS (#08849) replace the messy scraps of lead and glass you've had to use to hold glass and lead in place when assembling leaded windows. No more chipping glass edges. No more deformed lead profiles. No more wasting lead. Simple, easy to use, and gives your workboard a polished professional look. Package of 25 – horseshoe nails NOT included.



PUSH PINS (#0158) are an alternative to horseshoe nails. Push pins have aluminum heads, and a 5/8" long shank. Works well with ceiling tiles or homasote board work surface. These are the same push pins that Morton includes with their Layout Block Systems. Box of 100.



HELPFUL SOLDERING HINTS:

- For improved solder flow melt the solder higher up on the tip and let it flow down on to your seam.
- Use distilled water when wetting the cleaning sponge. The mineral content in most tap water may contaminate your soldering tips.
- Filing tips will remove the protective plating and reduce tip life.
- Do not remove excess solder from a heated tip before turning off the iron. The excess solder will prevent oxidation of the tip during storage
- Use Lead Free solder on items to be handled, such as kaleidoscopes or jewelry, or on items like candy dishes that may have incidental food contact.

Soldering Iron Controls

IRON CONTROLS prevent melting lead came and "solder run-thru" on foiled projects. An iron control makes soldering easier, and your iron last longer.

GLASTAR IRON CONTROL (#0757) is made for continuous use. Uses heavy duty solid state control, similar to those used in kilns. With instructions, 1 year warranty. 1800 watt capacity, can be used by more than one iron at a time. 3 prong plug.



TEMPRIGHT CONTROL (#07539) with three prong plug and 400 watt capacity will handle just about any iron you can find! From Mika, so you know it's made well! 3 prong plug. 1 year warranty.



LEPONITT PROFESSIONAL SOLDERING IRON CONTROL (#3910-P) is a quality, low cost iron control. Not at all fancy, but it will do a nice job regulating your iron. A good choice for students or studios as the price is reasonable and it has the capacity for studio work. 120 volts, 800 watt capacity. Three prong plugin and two prong cord.



Soldering Accessories

SOLDERING IRON TIP CLEANER (#0758) by Glastar is a convenient sponge and tray. Sponge is a special formulation for heat resistance.

Order **REPLACEMENT SPONGE (#0759)**



DESOLDERING WICK (#0749) is handy for repair work. Lightly flux, then press between your hot iron tip and the solder you wish to remove. Braid wicks solder up! 5 ft spool.



STUDIO PRO CAST SOLDERING IRON STAND (#0753) holds smaller irons off your table and safely out of the way. Features heavy cast base with sponge holder and spring style barrel cover. A must for a safe work area!

NOTE: The Studio Pro Iron Stand will NOT work with the following irons: Mika 80w (#0750), Mika 100w (#0755), Leponitt Woody (#39250) and Hexacon irons 150w or larger.



CRADLE STYLE IRON HOLDER (#0741) Not stylish, no sponge included, but it holds nearly any soldering iron, including larger irons, safely.



SOLDERING IRONS

An extensive variety of soldering irons and accessories for all stained glass work follows. Choose from quality irons by Hexacon, Weller, Mika International and Inland.

Irons by Mika

MIKA INTERNATIONAL produces two dependable and reasonably priced Studio Line quality soldering irons. Both are up to the task of heavy copper foil work, and come with a 1/4" tapered chisel, iron clad tip with a 3/8" shank. **UL Listed** and a 1 year warranty. Inexpensive, but sturdy.

- **MIKA 100 WATT STUDIO IRON (#0755)** 10 1/2" length, 9.9 oz., 1000°F max temp.



- **MIKA 80 WATT STUDIO IRON (#0750)** 10 1/2" length, 10 oz., 1000°F max temp.



Irons by Weller

Weller irons have been in the stained glass market for a long time. They are the accepted standard from coast to coast.

WELLER SPG80 IRON (#07521) is probably the most popular 80 watt soldering iron used in stained glass. Weller combines quality with a moderate price. The light weight and durable construction make SPG-80's popular. Complete with two iron plated, long life tips: a standard 3/8" tip and smaller 1/4" tip. Comes with power indicator light. 9 1/4" length, 5.9 oz., 900°F max temp. 1 year warranty



WELLER W-100 IRON (#0745) is supplied with a 3/8" diameter tip. This temperature controlled iron keeps the tip temperature from exceeding 700° F. This feature allows you to work without melting lead came, and eliminates the need for an iron control. 9" length, 7.5 oz., 700°F max temp.



WELLER 150W SOLDER GUN (#0751) supplies instant heat when you pull the trigger. Features a solid state temperature controlled, replaceable powerhead. A convenient ejection button makes switching powerheads easy. Does well for any soldering job. Automatically limits tip temperature to 700°F, preventing overheating. With a 5' cord. 9" length, 6.5 oz., 700°F max temp.



WELLER WLC-200 SOLDERING STATION (#0760) combines a lightweight 80 watt stained glass soldering iron with a built in iron control, iron stand and tip cleaning sponge. This station is your all-in-one soldering product. Iron features a replaceable 80 watt element, 3/8" plated chisel tip and foam grip. Controller adjusts from 5 to 80 watts of power, allowing you to select the heat needed for the job at hand. Coiled iron holder and natural sponge complete the package. Has on/off switch with red pilot light. 9 1/4" length, 5.9 oz., 900°F max temp.



HELPFUL HINT: For longest iron and tip life, remove the tip from your iron at the end of each soldering session. Then install the tip again next time you go to solder. This prevents the tip from seizing in the barrel, the number one killer of soldering irons.

Student Soldering Irons

These are perfect, inexpensive starter irons, providing reasonable quality at a modest cost.

HAKKO FX-601 (#39290) - this small, lightweight, ceramic-core iron will outperform the most popular 100W soldering irons on the market. Ideal for all your stained glass applications, from small decorative projects to windows. Adjustable electronic temperature control, no rheostat needed, with 10 temperature settings between 464 and 1004°F. The ceramic heating element is highly efficient reaching operating temperatures faster and providing super-fast thermal recovery. 12 month warranty (tips excluded). 9-3/8" Length, 2.4 oz. Made in Malaysia.

3/16" CHISEL OEM REPLACEMENT TIP (#39291)
1/4" CHISEL REPLACEMENT TIP (#39292)



HAKKO RED 503 (#39298) is an economical and lightweight 60w iron for students and hobbyists. 905°F maximum temperature. 9-3/8" length, 6.4 oz. Made in China.

3/16" OEM REPLACEMENT TIP (#39299)

LEPONITT 100 WATT WOOD

HANDLE IRON (#39250) - the

wooden handle is comfortable, cool and helps balance the iron while in use. Uses 3/8" diameter tips. Great value! 11 3/4" length, 7.1 oz. Made in Taiwan.

3/8" OEM REPLACEMENT TIP (#39251)

100 WATT STUDENT IRON

(#39260) is a well made iron at a great price. Perfect starter iron for the stained glass novice. Uses 5/16" diameter tips. 10" length, 5.9 oz. Made in Taiwan.

5/16" OEM REPLACEMENT TIP (#39261)

DIAMOND TECH HOBBY 100 WATT IRON (#39270) is an economical choice for production, studio or classroom use. 1/4" iron chisel style tip, perfect for stained glass projects, a "stay cool" insulated comfort grip handle. With a 1000°F maximum temperature a temperature controller is recommended. One year manufacturer warranty (excluding replaceable parts). Uses 5/16" diameter tips. 10 1/4" length, 7.1 oz. Made in Taiwan.

1/4" OEM TAPER CHISEL REPLACEMENT TIP (#39271)

DIAMOND TECH STUDIO 100 WATT TEMPERATURE CONTROLLED IRON

(#39280) is a smart choice for production, studio, and classroom use. This 100 watt, lightweight design iron features a built-in temperature control, 1/4" chisel style tip, a stay cool comfort grip insulated handle and quick change nut for easy tip changes. One year manufacturer warranty (excluding replaceable parts). 9 1/2" length, 5.9 oz. Made in China.

1/4" OEM TAPER CHISEL REPLACEMENT TIP (#39281) 750°F

Irons by Hexacon

Heavy duty industrial irons made in the **USA**, used in production studios across the country. If you want an iron that will last nearly forever, these are the ones to buy!

HEXACON "A" SERIES 60W MINI IRON (#39300) is a nice lightweight iron suited for smaller projects & decorative soldering. Slim profile fiberglass, anti-roll handle, 3/16" taper chisel iron clad Xtradur tip (#39305) and independently replaceable tip, element, cord and handle. 8" length, 5 oz., 1075°F max temp.

HEXACON POWERHOUSE 100W IRONS bridge the gap between the small pencil and larger industrial soldering irons. Featuring 1/4" tapered chisel (5/16" shank) Xtradur iron clad tip (#39311), lightweight hardwood handles and independently replaceable tip, element, cord and handle. Styles available:

- STANDARD INLINE PENCIL STYLE (#39310)** 11" length, 11.9 oz., 1125°F max temp.

- HATCHET STYLE (#39310H)** repositions the center of gravity closer to the hand which, studies have shown, reduces stress and fatigue on the user's arm. 7 1/4" length/drop, 10.9 oz., 1125°F max temp.

HEXACON HEAVY DUTY SERIES IRONS are the most rugged heavy duty irons available for continuous studio soldering. Featuring a near indestructible outer element case made from a single piece of high strength nickel plated alloy steel. Each iron has a triple ringed heat interrupter/deflector to keep the handle cool and comfortable and make the shaft shorter, allowing for a more well-balanced tool. Unique to these irons is the energy-absorbing nut which securely holds the tip in place, and also cushions the element from jolts when the iron is dropped into its holder, prolonging the life of the iron and element. All of the **HEAVY DUTY SERIES** of irons are equipped with long lasting iron-clad Xtradur tips and independently replaceable tip, element, cord and handles. Styles available:

- 150w PENCIL STYLE (#39320)** equipped with a 5/16" tapered chisel tip with a 3/8" shank (#39321). 12" length, 18.6 oz., 970°F max temp.





































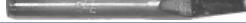





- 175w HATCHET STYLE (#39330H)** repositions the center of gravity closer to the hand which, studies have shown, reduces stress and fatigue on the user's arm. Equipped with a 5/16" tapered chisel tip with a 3/8" shank (#39321). 7 1/2" length/drop, 19.1 oz., 1010°F max temp.

- 200w PENCIL STYLE (#39340)** equipped with a 1/2" chisel tip with a 1/2" shank (#39341). 12 1/2" length, 21.8 oz., 1090°F max temp.

- 250w PENCIL STYLE (#39350)** equipped with a 5/8" chisel tip with a 5/8" shank (#39351) 12 1/2" length, 29.4 oz., 1030°F max temp. Supplied with cradle stand.

- 300w PENCIL STYLE (#39360)** equipped with a 7/8" chisel tip with a 7/8" shank (#39361). 12 1/2" length, 39.5 oz., 1130°F max temp. Supplied with cradle stand.

Replacement Tips

CAT#	MFR	DIA	LENGTH	DESCRIPTION*	MFR #	ILLUSTRATION
Hakko Red 503 60w iron						
39299	Hak	3/16"	3-5/16"	3/16" Chisel (OEM tip for Hakko Red 503)	ED6	
Hexacon 23A 60w iron						
39301	Hex	1/4"	2-1/4"	1/4" Chisel	HT 553 X	
39302	Hex	1/4"	2-1/4"	1/8" Taper Chisel	HT 417 X	
39303	Hex	1/4"	2-1/4"	1/16" Turned Chisel	HT 699 X	
39304	Hex	1/4"	2-1/4"	1/32" Conical	HT 343 X	
39305	Hex	1/4"	2-1/4"	3/16" Taper Chisel (OEM tip for Hex 60w)	HT 313 X	
Hakko FX-601 Ceramic Core Iron						
39291	Hak	1/4"	1-5/8"	3/16" Taper Chisel (OEM tip for Hakko FX-601)	T19-D5	
39292	Hak	1/4"	1-5/8"	1/4" Chisel	T19-D65	
Hexacon 100w, Inland Deluxe 100w, Standard 100w, DTI Hobby 100w & 100w Student Iron						
39311	Hex	5/16"	3"	1/4" Taper Chisel (OEM tip for Hex 100w)	HT 506 X	
39312	Hex	5/16"	3"	1/4" Mushroom Taper Chisel	HT 505 X	
39313	Hex	5/16"	3"	5/16" Chisel	HT 547 X	
39261		5/16"	3-1/2"	1/4" Chisel		
39271	DTI	5/16"	3"	1/4" Chisel		
Mika 80w & 100w, Weller SPG-80 & WLC-200, Hexacon 150w & 175w, Leponitt 100w Wood Handled Iron						
39321	Hex	3/8"	4-1/4"	5/16" Taper Chisel (OEM tip for Hex 150w & 175w)	HT 231X	
39322	Hex	3/8"	4"	3/8" Chisel	HT 198 X	
39323	Hex	3/8"	4-1/4"	Pyramid	HT 255 X	
39324	Hex	3/8"	4"	3/16" Taper Chisel	HT 140 X	
0765	Weller	3/8"	3"	3/8" Chisel (OEM tip for Weller SPG80L & WLC-200)	MTG-20	
0766	Weller	3/8"	3"	1/4" Turned Chisel	MTG-21	
0767	Mika	3/8"	3-1/2"	1/16" Cone	MSIT-205	
0768	Mika	3/8"	3-1/2"	3/8" Chisel	MSIT-204	
0769	Mika	3/8"	3-1/2"	1/4" Taper Chisel (OEM tip for Mika 80w & 100w)	MSIT-203	
39251	Leponitt	3/8"	3-7/8"	1/4" Chisel		
DTI Studio 100w Temperature Control ONLY						
39281	DTI	3/8"	3-1/8"	1/4" Chisel - 750°F		
39282	DTI	3/8"	3-1/8"	3/8" Chisel - 750°F		
Weller W-100 ONLY						
0746	Weller	3/8"	3"	3/8" Chisel (OEM tip for Weller W-100) - 700°F	CT6-F7	
0748	Weller	3/8"	3"	1/4" Taper Chisel - 700°F	CT6-E7	
0744	Weller	3/8"	3"	3/16" Taper Chisel - 700°F	CT6-D7	
0743	Weller	3/8"	3"	1/8" Taper Chisel - 700°F	CT6-C7	
07468	Weller	3/8"	3"	3/8" Chisel - 800°F	CT6-F8	
07488	Weller	3/8"	3"	1/4" Taper Chisel - 800°F	CT6-E8	
07448	Weller	3/8"	3"	3/16" Taper Chisel - 800°F	CT6-D8	
07438	Weller	3/8"	3"	1/8" Taper Chisel - 800°F	CT6-C8	
07469	Weller	3/8"	3"	3/8" Chisel - 900°F	CT6-F9	
Hexacon 200w iron						
39341	Hex	1/2"	4-1/4"	1/2" Chisel (OEM tip for Hex 200w)	HT 293 X	
39342	Hex	1/2"	4-1/8"	1/4" Taper Chisel	HT 444 X	
39343	Hex	1/2"	4-1/4"	Pyramid	HT 257 X	
Hexacon 250w iron						
39351	Hex	5/8"	4-1/4"	5/8" Chisel (OEM tip for Hex 250w)	HT 499 X	
39352	Hex	5/8"	4"	5/16" Taper Chisel	HT 178 X	
39353	Hex	5/8"	4-1/4"	Pyramid	HT 260 X	
Hexacon 300w iron						
39361	Hex	7/8"	4-3/4"	7/8" Chisel (OEM tip for Hex 300w)	HT 261 X	
39362	Hex	7/8"	4-1/4"	3/8" Taper Chisel	HT 179 X	

* Dimension is tip width

Replacement Parts

Don't scrap your iron just because you lost the knurled nut or the element burned out. Replacement parts are here:

WELLER 7A POWERHEAD (#07511)

for the GT7A Soldering Gun. 3/16" chisel tip, as supplied with GT7A Soldering Gun. 700° F maximum temperature



REPLACEMENT NUT FOR WELLER W-100 IRON (#07455)



HEXACON REPLACEMENT ELEMENTS:



- Element for 60w Hexacon Iron (#39300-RE)
- Element for 100w Hexacon Iron (#39310-RE)
- Element for 100w Hatchet-Style Hexacon Iron (#39310H-RE)
- Element for 150w Hexacon Iron (#39320-RE)
- Element for 175w Hexacon Hatchet Iron (#39330H-RE)
- Element for 200w Hexacon Iron (#39340-RE)
- Element for 250w Hexacon Iron (#39350-RE)
- Element for 300w Hexacon Iron (#39360-RE)

CAT#	MFG	DESCRIPTION	WATTAGE	LENGTH (in)	WEIGHT (oz)	TIP DIA (in)	MAX TEMP (°F)	IRON CONTROLLER NEEDED	WARRANTY**	3 PRONG	COUNTRY OF ORIGIN
0750	MIKA	80w STUDIO IRON	80	10.5	10	3/8	1000	Y	12 mo	Y	KOREA
0755	MIKA	100w STUDIO IRON	100	10.5	9.9	3/8	1000	Y	12 mo	Y	KOREA
0752	WELLER	SP80N	80	9.25	5.9	3/8	900	Y	7 yr	N	MEXICO
0745	WELLER	W-100	100	9	7.5	3/8	700	N	12 mo	Y	MEXICO
0751	WELLER	150w SOLDERING GUN	150	9	6.5	powerhead	700	N	12 mo	N	MEXICO
0760	WELLER	WLC-200 SOLDERING STATION	80	9.25	5.9	3/8	900	N	12 mo	N	MEXICO
3905	INLAND	STANDARD (BLACK AND WHITE)	100	9	6.4	5/16	1000	Y	6 mo	N	TAIWAN
3909	INLAND	DELUXE 100w	100	9.5	6.2	5/16	1000	Y	12 mo	N	TAIWAN
3906	INLAND	STUDIO PROFESSIONAL	100	9	6.5	3/8	1200	Y	12 mo	N	TAIWAN
3907	INLAND	TEMPTRON	100	9.5	8.8	3/8	1200	N	12 mo	N	TAIWAN
3908	INLAND	INSTA-HEAT	120	8.25	6.9	5/16	850	Y	12 mo	N	TAIWAN
39250	LEPONITT	100w WOOD HANDLE	100	11.75	7.1	3/8	N/A	Y	--	N	TAIWAN
39260		100w STUDENT IRON	100	10	5.9	5/16	N/A	Y	--	N	TAIWAN
39270	DTI	STUDIO PRO HOBBY 100	100	10.25	5.3	5/16	1000	Y	12 mo	N	TAIWAN
39280	DTI	STUDIO PRO STUDIO 100	100	9.5	8.3	3/8	750	N	12 mo	N	CHINA
39290	HAKKO	FX-601	67	9.3	2.4	1/4	1004	N	12 mo	Y	MALAYSIA
39298	HAKKO	RED 503	60	9.75	6.4	3/16	905	Y		N	CHINA
39300	HEXACON	60w "A" SERIES MINI	60	8	5	1/4	1075	Y	3/12 mo*	Y	USA
39310	HEXACON	100w INLINE POWERHOUSE	100	11	11.9	5/16	1125	Y	3/12 mo*	Y	USA
39310H	HEXACON	100w HATCHET POWERHOUSE	100	7	10.9	5/16	1125	Y	3/12 mo*	Y	USA
39320	HEXACON	150w HEAVY DUTY INLINE	150	12	18.6	3/8	970	Y	3/12 mo*	Y	USA
39330H	HEXACON	175w HEAVY DUTY HATCHET	175	7.5	19.1	3/8	1010	Y	3/12 mo*	Y	USA
39340	HEXACON	200w HEAVY DUTY INLINE	200	12.5	21.8	1/2	1090	Y	3/12 mo*	Y	USA
39350	HEXACON	250w HEAVY DUTY INLINE	250	12.5	29.4	5/8	1030	Y	3/12 mo*	Y	USA
39360	HEXACON	300w HEAVY DUTY INLINE	300	12.5	39.5	7/8	1130	Y	3/12 mo*	Y	USA

* NOTE: Hexacon irons have a 3 month warranty on the element, sensor and power cord and a 12 month warranty on the electronic circuitry, workmanship and for manufacturing defects. Tips and other consumables are excluded from the warranty.

** NOTE: Contact the appropriate manufacturer for warranty repairs and claims. Distributors are not authorized to make repairs or replacements.

