

- Place your glass piece against the bar and slowly push it down onto the disc to grind the angle. For longer pieces, use a back and forth motion across the MiterMaker™ bar and disc.
- Remember to let the diamond do the work. If at any time a white paste develops on the disc, increase the coolant flow.

Common MiterMaker™ Bar Uses	
90° Bar	Straighten pieces, remove flares, safety edge
22.5° Bar	Eight sided boxes, lamps, and other 3-D objects
30° Bar	Six sided boxes, lamps, and other 3-D objects
45° Bar	Four sided boxes, lamps, and other 3-D objects

Grinding Compound Angles

The CABs attach to the MiterMaker™ bar and are for grinding compound angles, that is an angle on an angled piece. There is a right and left bar. They attach by inserting the pin into the hole along the bottom of the MiterMaker™ bar.

This acts as a pivot point. Then use the thumb screw to attach the slotted arm to the upper part of the MiterMaker™ bar. (There is a brass insert where the screw inserts). On top of the MiterMaker™ are angle setting guides scaled in 5° increments to create angles from 0° to 45°.



To grind a compound angle:

- Attach the CAB bar to the appropriate MiterMaker™ bar, set the CAB angle and lock in place. For example: To grind a flat 8 sided border use the 90° MiterMaker™ bar and set the CAB to 22.5°.
- Hold the glass flat against the MiterMaker™ bar and the CAB at the same time as you feed it into the disc.
- Remember to let the diamond do the work. If at any time a white paste develops on the disc, increase the coolant flow.

Using the Mini Work Surface

When disc grinding on your TwinSpin™ you can still use the 1" grinding head.

- Install the 1" grinding head on top of the disc and secure to the flat side of the motor shaft.
- Place the mini work surface (O) over the disc as shown.
- The sponge in the coolant feed housing supplies coolant to the disc and the 1" bit at the same time. Make sure it's inserted in the housing.
- Adjust the coolant flow rate to keep the bit wet.
- Grind as you would normally. When you want to go back to disc grinding simply lift off the mini work surface.



Maintenance

Maintenance to your grinder is minimal but important to prolonging the life and performance of the machine.

- Apply Inland Motor Shaft Lubricant (#50022) to the shaft whenever changing or removing grinding heads. Remove the head if you won't be using the grinder for more than a week.
- Tighten grinding head set screws **ONLY** to the flat side of the motor shaft to prevent scaring the shaft which makes removing the head nearly impossible. Never force a bit onto the shaft and never pry off a bit. If the bit is stuck, contact Inland Customer service for instructions at 1-800-521-8427, ext. 306
- It is very important not to overfill the water reservoir. Fill only until the water is level with the fill line. Over filling can create an electrical shock and damage the motor.
- After every hour of use you need to remove accumulated glass residue from the sponge in the BitSert. Remove the sponge and hold it under running water and squeeze it several times to rinse it clean. Replace in the BitSert.
- Remove and clean the reservoir after every 4 hours of use (or more often if grinding heavily). Ground glass accumulates in the reservoir and can slow down the bit and hardened residue is difficult to remove. To remove the reservoir first remove any grinding bits. Lift off the work surface and then lift the reservoir tray off the grinder body. Scrape the glass sludge into the trash and rinse clean. Reassemble the machine (refer to Assembly section).
- The work surface is reversible. When one side becomes worn, simply flip it over. Replacement grids are available.
- Motor bearings are permanently sealed and lubricated.

Popular Accessories

3-Step!™ Beveler Kit no. 50006: Convert your TwinSpin™ into a mini-beveling machine. Modify stock bevels and clusters to your own design needs, remove small scratches and polish in an exclusive 3 step process.

FineGrit™ Disc no. 40501

SuperFine™ Grit Disc no. 40502

Service

Questions about your grinder can be answered by calling Inland Customer Service at 1-800-521-8428 Monday through Friday, 9:00 am to 5:00 PM EST, by visiting the Inland web site at www.inlandcraft.com, or e-mail customer service at helpdesk@inlandcraft.com.

Inland Craft Products
32052 Edward Drive
Madison Heights MI 48071
www.inlandcraft.com



Diamond Disc Grinder

User Guide

Thank you for buying this Inland product. This booklet contains instructions for the set up and use of your TwinSpin™ as a disc grinder. To set up your machine for standard grinding, please use the included instructions 'Impulse™ and Aero™ Diamond Glass Grinder'. The TwinSpin™ would set up the same as an Impulse™. If you want to set up for disc grinding, follow the instructions below. Either way, please read all the instructions to understand the correct components, set up, and use of this machine.

Safety

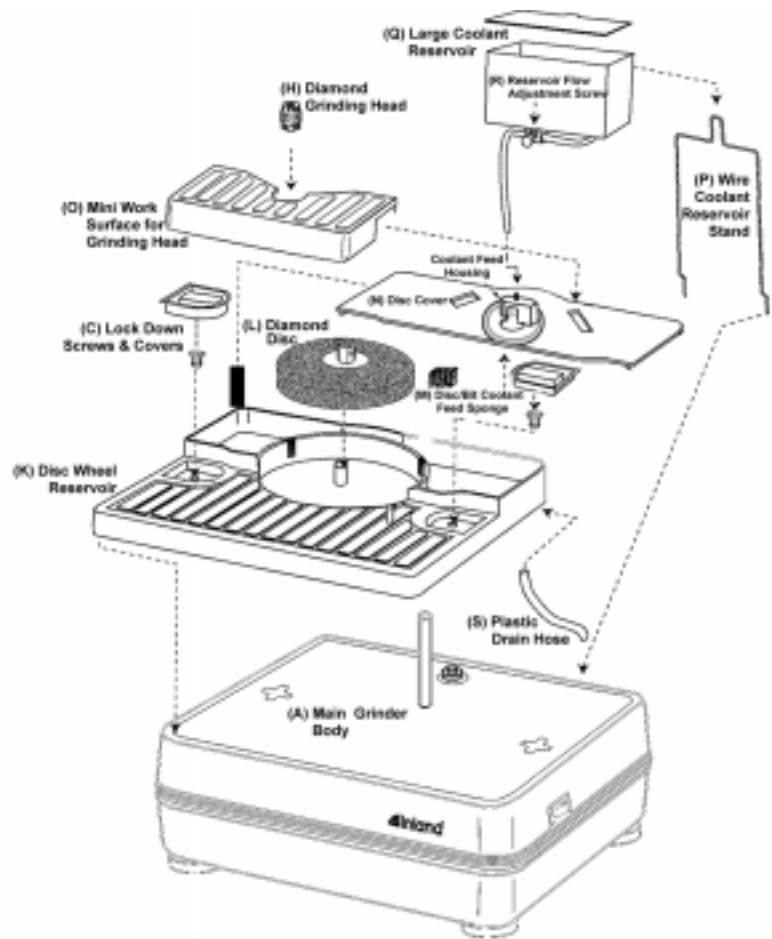
- It is extremely important to wear proper eye protection when using any glass grinder. We highly recommend that you wear safety goggles rather than safety glasses. You can also use the Inland FaceShield™ or MagnaShield™ in conjunction with proper eye wear for added protection. A shield alone is not adequate eye protection.
- DO NOT** wear loose clothing or any accessories (long necklaces, bracelets, shirts with long fringes, and similar) that might get caught by the grinder head while using any Inland grinder.
- Use only in a properly grounded and tested outlet. Never override the grounding system or modify the plug.
- Set up your machine on a sturdy, level work surface that is water tolerant and a comfortable height to work on.
- Do not sit your grinder in a pan, on a towel or carpeting.

Parts

Check and verify that you have all the parts listed before beginning.

Disc Grinding Setup

Part Name	Quantity	Color
(A) Grinder Body	1	BLACK/WHITE
(C) LockDown Screw & Cover (set)	2	WHITE
(K) Disc Reservoir & Work Surface	1	WHITE
(L) 5" Diamond Disc	1	SILVER
(M) Disc & Bit Coolant Feed Sponge	1	YELLOW
(N) Disc Cover w/Coolant Feed Housing	1	WHITE
(O) Mini Work Surface	1	WHITE
(P) Wire Coolant Reservoir Stand	1	WHITE
(Q) Large Coolant Reservoir	1	WHITE
(R) Flow Adjustment Screw	1	WHITE
(S) Length of Plastic Drain Tube	1	CLEAR



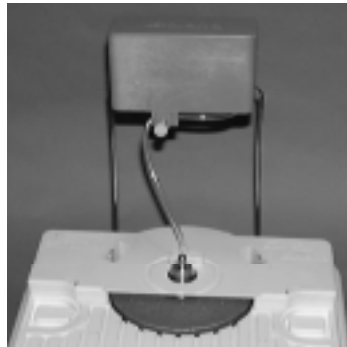
Set Up TwinSpin™ as a Disc Grinder

Set up your TwinSpin™ following the diagram above. If your machine is set up for grinding you will need to remove all bits, the white grid surface (E), and the coolant reservoir tray (B).

- 1) Attach one end of the plastic drain tube (S) onto the drain stem located on the underside of the disc reservoir (K). NOTE: Hold the end under warm water first to make it easier to fit over the drain stem. You will place the other end in a tray to collect used coolant after you complete the set up.
- 2) Place the disc wheel reservoir (K) onto the grinder body (A) and lock into place using the two lock down pins (C). Push the white covers in place over the pins.
- 3) Install the disc (L) onto the motor shaft by loosening the set screw with the long Allen wrench. Place the disc onto the shaft so that the set screw aligns with the flat side of the motor shaft and the disc is just above the reservoir surface. **Do not force!** Contact customer service if you have problems. Tighten the wheel in place

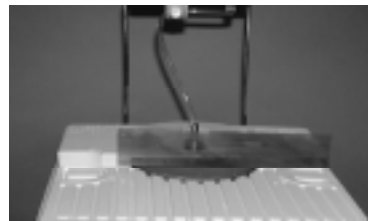
using the Allen wrench. **NOTE: Always make sure to tighten any bit or disc against the flat side of the shaft.**

- 4) Insert the dampened yellow coolant feed sponge (M) horizontally into the opening on the back side of the coolant feed housing on the disc cover (N). Put the disc cover (N) in place on the disc reservoir (K)
- 5) Assemble the coolant reservoir by attaching one end of the plastic tubing to the drain stem on the underside of the reservoir. Feed the other end through the tunnel behind the flow adjustment screw. Insert the reservoir flow adjustment screw (R) into the brass threading on the front and turn until it just holds in place. Insert the legs of the wire coolant reservoir stand (P) into the two mounting brackets molded into the back of the grinder body (A). Slide the reservoir (Q) onto the loop at the top of the coolant reservoir stand (P). Attach the free end of the coolant hose onto the nipple on the coolant feed housing.



Disc Grinding

You can quickly straight edge, thin, miter, and angle the edge of your glass when disc grinding on the upper surface of the diamond disc. When disc grinding make sure the disc top is just barely above the work surface and the coolant feed hose is attached to the nipple on the coolant feed housing.

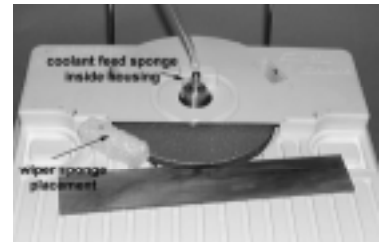


- 1) You will need to fill the reservoir (Q) and adjust the flow rate so that you have a slow yet steady drip of coolant onto the disc while working. Adjust the flow rate by turning the flow adjustment screw (R) in and out. If a white paste develops anytime while grinding, increase the flow of coolant onto the sponge in the housing.
- 2) Turn on the machine and start grinding with a light, steady pressure. Slide the glass across the surface of the disc. For larger pieces use a back and forth motion. You can also use the back side of the disc cover (N) as guide to help control the glass as you grind. Never push the glass so hard that you stall the disc.
- 3) We recommend practicing on some scrap pieces to get a feel for grinding on top of the disc surface.

Outer Edge Grinding

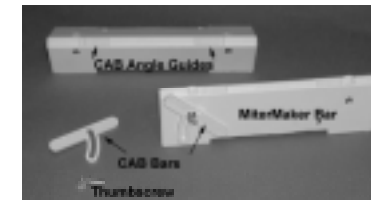
You can use the outer edge of the 5" disc to shape and grind glass just as you would use a standard grinding bit. Grinding with the outer edge is a very fast way to remove material. To grind using the outer disc edge:

- 1) Raise the disc at least 1/8" above the work surface. Use the Allen wrench to loosen the set screw and then tighten the disc to the flat side of the motor shaft.
- 2) Remove the disc cover (N) and place an additional wet bit sponge in the right side slot of the coolant reservoir (K) so that it just touches the disc. If the sponge is dry or wedged against the disc, it won't grind properly.
- 3) Fill the right side reservoir well to a maximum depth of 1/8". **NOTE: Overfilling will only produce excessive overspray.** Replace the disc cover (N)
- 4) You can help reduce overspray by installing a wiper sponge to the left of the disc on the disc work surface (K). In the parts bag is a small metal dowel pin. Insert the pin into the hole located in the disc reservoir work surface (K) near the left hand edge. Put the dampened wiper sponge over the pin so it is held in place by the dowel and just touches the edge of the disc.
- 5) Turn on the machine and using light pressure at first, feed the glass into the disc. Remember to let the disc spin freely. **DO NOT** push so hard that you stall the disc. We recommend practicing on scrap pieces first to get a feel for the grinding action.
- 6) Before returning to disc grinding, remember to remove the wiper sponge, metal dowel pin and remove the sponge from the right side of the coolant reservoir (K).



Using the MiterMaker™ and CAB™

The MiterMaker™ Kit contains:



- 1 - 8" MiterMaker™ bar for grinding 90° and 45° angles
- 1 - 8" MiterMaker™ bar for grinding 22.5° and 30°/60° angles
- 2 - Compound Angle Bars or CABs
- 2 - Brass thumbscrews for mounting the CABs to the MiterMaker™ bars. There is also 1 - 5 1/2" yellow sponge that fits under the MiterMaker™ bar.

- 1) To grind a mitered edge, select the appropriate MiterMaker™ bar. For example: To miter the edges for a simple box, select the bar with the 45° angle.
- 2) Place the sponge under the bar and then snap it onto the work surface with the angle you want to grind facing the disc.
- 3) Turn on the machine and adjust the coolant to drip at a steady, even rate.

