



Intarsia Grinder

Patent # U.S. 509,837

1 – Each and every Grinder shipped has had its diamond lap “trimmed” (see my inked note on the lap) to insure that “in & out” error is less than .005” at most... Now that’s pretty accurate, the diameter of the human hair being .002” to .003” (thousandths of an inch). But unless the “runout” error is trimmed to a decent minimum, your lap

will not only wear excessively in one particular place, but the cutting action will be intermittent since only the “high spot” on the lap is doing the cutting. Thus, more of the lap surface doing the cutting the better, right? Please remember also. The more in and out error, the more “vibration” and more “noise”. I like to mark a line on the aluminum support block behind the lap and a corresponding line on each lap as a line-up guide. That way, you locate the lap at the exact same spot every time. Why? Well, to get the lap “trimmed” requires slipping a thin shim exactly where it needs to be. I dab a bit of crazy glue to anchor it there. Just think? If you change that location, you change “runout” amount. Simple, right? And with every Grinder, I supply a few pieces of shim stock (no charge) and I’ll be changing to plastic “color-coded” shim stock, rather than an equivalent steel item that rusts... Progress.

2 – The Grinder photo shows the INDEX attachment mounted on a sturdy elongated aluminum angle, which I call a Work Bench. It has a thin surface covering of stainless steel attached to it. This provides a nice long lasting low friction surface, to give that “feel” factor we all look for when doing dainty work. A standard Work Bench is also provided with the Grinder, in case you prefer a bit more elbow room when and if ever needed for that special project.

3 – The EZ-on,,, EZ-off, INDEX attachment Work Block is a very precise piece of gear. It’s very compact aluminum body has fingertip indents to help provide a firm grip to wet hands. Its stainless steel main shaft is very tightly fitted to reduce “play”. It (and all other moving component parts) should get a drop of light oil frequently to insure smooth action. One end receives the Dop. Incidentally, my Dops are “under-cut” at the point where the setscrew hits. Usually, with other Dops, there is no undercut and the cup end of the setscrew throws up a burr, hindering Dop entry and exit. Not so, here! Additionally, my Dops have a “locator” pin. Yup, the Dop goes back into the very same spot (the V-Groove), each and every time. No matter how many times you remove and replace it. No matter how many Dops you have working different projects. Is that grrreat, or what? And at the other end of the Work Block, is the INDEX Wheel. Same as you’ll find on most Faceting Machines. However, there’s no “cheater” mechanism to mess with. One less headache to contend with.

4 – An enjoyable part about having the Work Block freestanding and easily removable, lets a hobbyist hold it under the light to inspect “Intarsia-creations-in-process”,,, and INDEX Wheel settings close-up! No straining the neck or twisting the lower back. We’ve all missed a location by a notch, or two, trying to be an acrobat, when faceting a near-finished stone, right? Wow, how terrible! The INDEX Wheel locator blade is nestled in solid brass posts. The design provides high accuracy. Don’t forget that drop of oil occasionally. And if you want to make a perfectly round cut, just apply a wedge of wood under the locator knife body and prevent it from entering an INDEX Wheel slot and “free-wheel”! Pretty nifty, right? The pin and recess slot feature controls movement to work most of the lap face, safely.

5 – An INDEX attachment design feature includes 2 small “sealed” ball bearings located underneath the Main Slide, upon which the Work Bench rests, combining with a V-Groove stainless steel rod network having “push-pull” adjustment screws. It means that the hobbyist can adjust for wear. Please remember, this Main Slide moves in and out repeatedly. Suffers “wear” quicker than most all other parts, therefore, it’s essential there be some way to keep movement “tight” without “play”. The ball bearings and “push-pull” screw adjustment feature arrangement, does an excellent job of that.

6 – The Feed Screw and Dial Indicator combo provides yet one more unique characteristic that lets the hobbyist get and maintain divider section thicknesses, within thousandths of an inch. Check out the Desert Rose pattern Tom & Kay Benham produced for that 2008 May issue Jewelry Artist magazine article? I’m less than sure there’s a suitable descriptive adjective, to praise the masterful artistry sufficiently. This INDEX attachment lets the hobbyist enter into the land of GEOMETRIC DESIGN Intarsia, like never before. Triangles, squares, parallelograms, hexagons, octagons, you name it,,, are not only possible, but challenges creative juices as never before. A truly new wilderness to enjoy!

7 – There’s also what I call the Wobble Block. Please see it located furthest to the right on the Work Bench. It can be kept there, or easily removed by loosening a thumbscrew underneath. Just imagine, as you construct your Intarsia mosaic, you can swiftly transfer the Work Block from its workstation and “dress” the front face of your unique Intarsia creation, so that there are no un-discovered surprise flaws awaiting notice until the last minute. And just recently, I’ve redesigned the Wobble Block so that a mosaic or cabachon,,, can be “facteted”... Now that’s innovative,,, and wild !!!

8 – Next to the Wobble Block, please notice an 11° Block. Once your mosaic, or Cab is finished, you place it on the 11° Block, press it gently up against the lap and fashion that desired “grip” angle easily, if you perhaps prefer a bezel mount rather than a “prong” setting. And all sides of the jewelry piece can be ground identical, polished and be professional looking. Nice!

9 – Next to the 11° Block please see a 45° Angle Template made of ¼” thick aluminum having 3 holes measuring 3/32” diameter. Please check its literature. See how the Template lays flat. Pins contact the front edge of the Work Bench accurately parallel to the lap. The hobbyist can either hold the Intarsia mosaic component part up against the Template and run it transversely along the Work Bench edge, or can clamp the Template in place. The reason for the 3 holes, takes into consideration both right and left-hand hobbyists. I supply 3 pins (1 extra). These are 3 long lasting husky pieces (see “actual size” illustrations on the Template info sheet) for getting, 15°, 30°, 45°, 60°, 75° and 90° angles.

10 – The Transfer Block and Target Block is a dandy combo tool to have. Some of the Opal re-con material used is quite expensive these days, so one does not want to waste it unnecessarily. The Target Dop has annular indentations, perfectly concentric to the Dop shank. By placing the Target Dop in the Transfer Block bottom V-Slot, held in place by an elastic band or light spring. Now place a standard dop likewise in the upper V-Slot and lastly, place material to be mounted, smack in the middle of the Target Dop annular rings... Apply your adhesive and, bingo, nothing to it !!! A perfect setting !!!

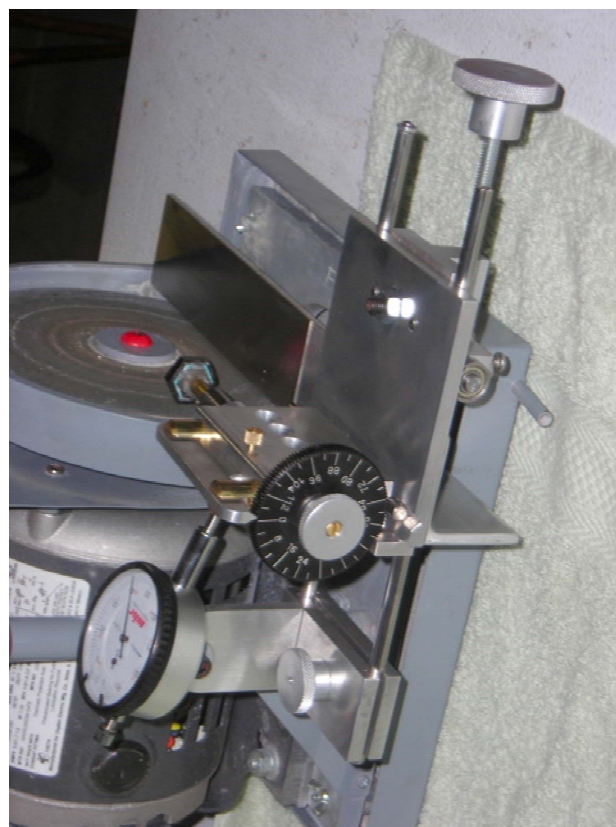
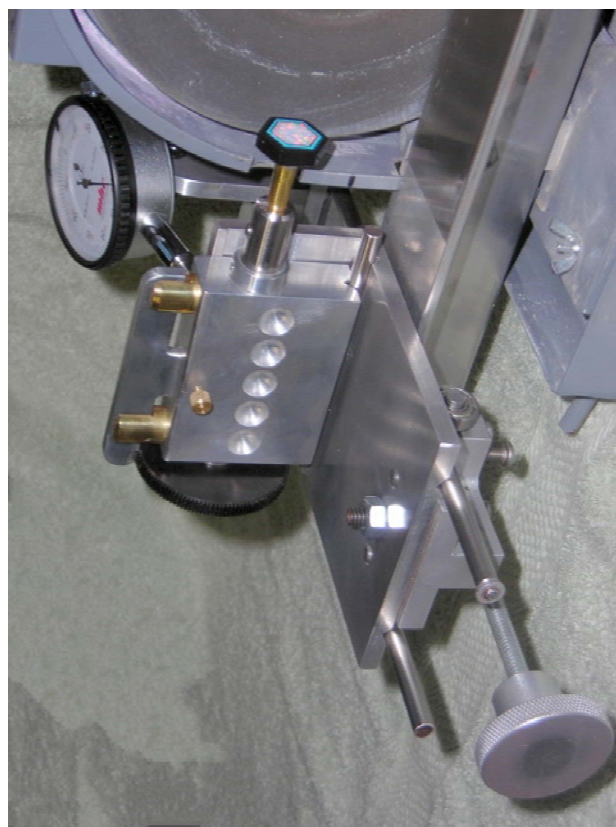
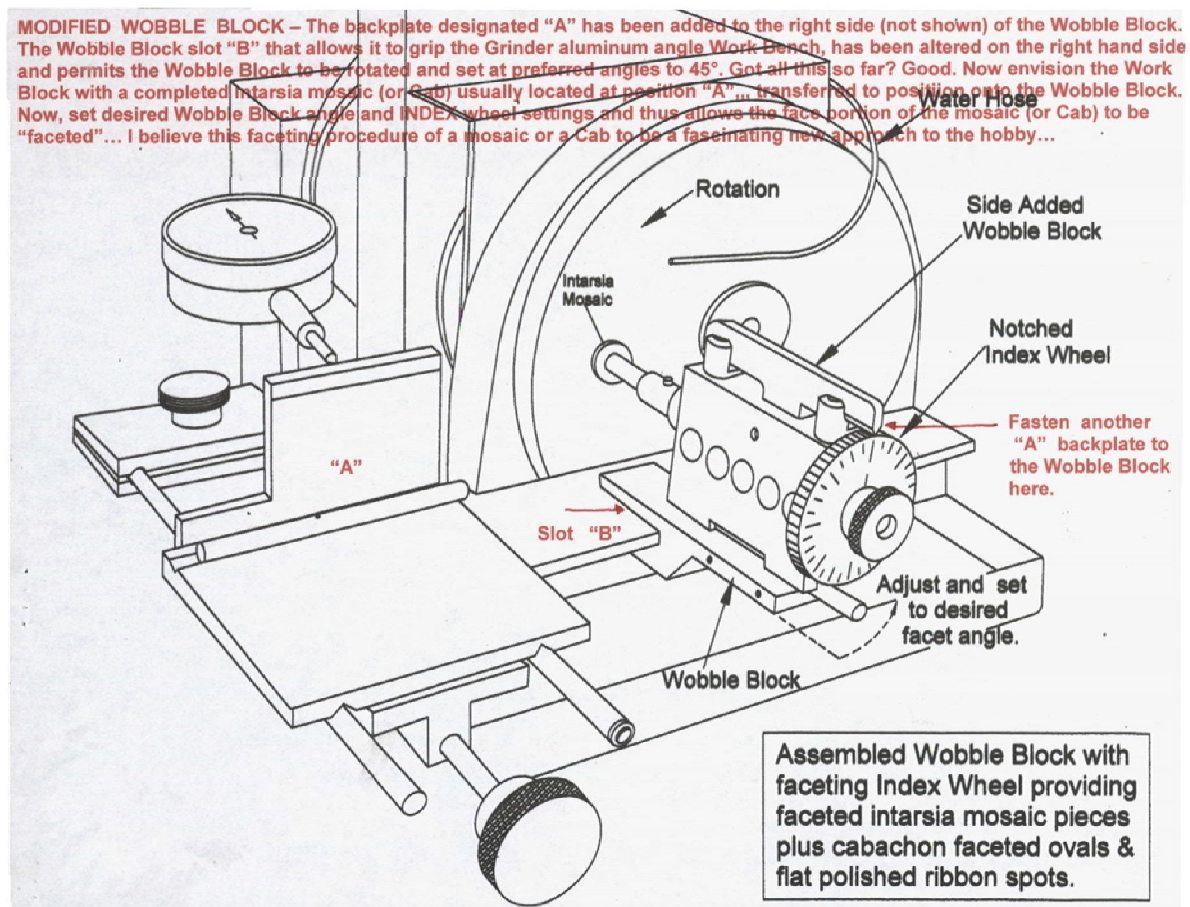
11 – I guess from here on out, it’s pretty much up to you to decide if this is the tool you want to buy and if zany “geometric shape” Intarsia designs are to become a new lapidary trip in you future. Unlike other suppliers, I personally do all the “making” (well over 300 Grinders happily made and shipped to date) of component parts (other than what’s bought ready made “off-the-shelf”) right here in my small St. Augustine workshop. Most parts are non-corrosive. Come visit my place of business when and if ever in Florida. All I ask is that you call me a couple of days in advance, OK? Being a “one-man” show, I’m in and out. If you decide to buy my equipment, please be advised that I’ve stopped taking Credit Card payment, what with all the identity theft craziness. Will be investigating PayPal. I’m told it’s a good deal. So until that time, please pay for your purchase with a personal check or money order. I generally ship within 10 days. I also call the buyer and advise that his or her shipment is in the hands of shipper. I’d much appreciate a return call when the Grinder arrives, assuring me that all is well,,, or if there’s any questions whatsoever. Please feel free to call and ask all the questions you wish, anytime.

Happy cutting!

Makes Unbelievable Shapes
+
Facet Mosaics
+
Facet Cabuchons



Index Attachment \$ 445. + \$ 40. S & H



Intarsia Grinder U.S. Pat #509,837 (ready to use)		
with 6" diameter diamond lap of choice -- \$399 + \$40 s & h		
Extra 6" diamond laps	80 grit -----	61
	100 -----	61
	180 -----	61
	260 -----	61
	360 -----	61
	600 -----	61
	1200 -----	61
Leather lap 6" -----		61
Curved cabachon lap combo 6" -----		140
	(single) -----	78
Copper clad lap 6" (no diamond charge on face) ---		48
Plain Lap (acrylic) 6" -----		28
7 1/2" diameter DuPont™ TEFLON® coated (no-stick)		
aluminum bench plate disc (1/8" thick) ----		10.95
INDEX attachment w/dop (ready-to-use) ----	445 + \$40 s & h	
1/4" diameter brass dop w/undercut area (no burrs)---		4.95
Wobble Block modified to facet mosaics or cabochon-		195
Transfer Block and Target Dop -----		85
3 price (1/4" thick) Angle Kit, 15°, 30°, 45°, 60°, 75°, 90°-		85
11° Relief Block (great for shaping bezel mount sides)-		85
EZ-On / EZ-Off Adjustable Protractor-----		95
1/2" cap Jacobs chuck w/key to fit motor shaft -----		90
1/4" x 20 thd motor shaft Adapter (holds polishing pads) 45		
EZ-On / EZ-Off Stainless Steel Wide-Range Adjustable		
Angle Work Bench-----		250
EZ-On / EZ-Off Lamp Shade Guard -----		95

SPECIAL:

- * Paul Casteel Tutorial Disc combo "Shop Hints & Silver Jewelry Making" ----- \$ 39.95
- * Phil Magistro Tutorial Disc Re: Intarsia Mosaic Making --- -- \$ 39.95

Shipping & Handing is \$ 10.00 (if ordered is sent individually - or – together)

NOTE: Personal check, money order, OK. Merely check off chosen items on this list and mail with a check. Keep a copy for future review. Delivery, 1 week – 10 days. Yes, I am here after the sale and stand behind every purchase 100%. Call anytime, any hour, leave message, or email...Thank You !

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Comments:

