

CASCADE LEAD CAME

FLAT H CHANNELS



NO.	FACE WIDTH	CHANNEL WIDTH	APPROXIMATE PIECES PER 45 LB. CASE
CL-FH60	3/16"	3/16"	98
CL-FH50	1/4"	3/16"	57
CL-FH48	9/32"	5/32"	63
CL-FH46	3/8"	5/32"	55
CL-FH45	3/8"	3/16"	38
CL-FH44	3/8"	1/4"	35
CL-FH26	1/2"	5/32"	41
CL-FH26R	1/2"	5/32"	30
CL-FH39	9/16"	3/16"	26
CL-FH12	3/4"	5/32"	27
CL-FH21	3/4"	15/64"	21

Cascade Lead Came is made from a very closely controlled alloy that combines a fine grain structure with high strength. Starting with pure lead, exacting quantities of Tin, Antimony, Copper and Bismuth are added to produce came that can be stretched to the breaking point and will still maintain a fine grain structure. This alloy also prevents oxidation which makes for easier soldering and allows a longer shelf life without tarnishing.

ROUND H CHANNELS



NO.	FACE WIDTH	CHANNEL WIDTH	APPROXIMATE PIECES PER 45 LB. CASE
CL-RH1	11/64"	3/16"	83
CL-RH2	3/32"	5/32"	147
CL-RH3	1/8"	5/32"	115
CL-RH4	7/32"	5/32"	70
CL-RH5	3/16"	3/16"	53
CL-RH5N	3/16"	5/32"	57
CL-RH6	1/4"	5/32"	61
CL-RH7	1/4"	3/16"	57
CL-RH8	5/32"	5/32"	95
CL-RH10	7/32"	3/16"	53
CL-RH18	11/32"	3/16"	35
CL-RH30	1/2"	3/16"	31
CL-RH35	5/32"	3/16"	104
CL-RH36	5/16"	3/16"	39
CL-RH64	1/4"	1/4"HH	35

We carry the #2 Alloy, a medium strength lead which has become very popular, in all sizes. We carry the #1 soft alloy in #CL-RH5, CL-RH7, CL-RH35 and CL-SU55. Full cases come in a 45 pound cardboard case in 6 foot lengths. Refer to the specifications to determine the number of 6 foot pieces per case.

BORDER U CHANNELS

NO.	DESCRIPTION	FACE WIDTH	CHANNEL WIDTH	APPROX. PIECES 45 LB. CASE
CL-SU55		1/4"	5/32"	60
CL-UH58		5/8"	5/32"	19
CL-RU70		3/16"	5/32"	76
CL-RU80		3/16"	5/32"	66
CL-RU85		1/4"	13/64"	57
CL-RU90		1/8"	5/32"	109
CL-RU92		3/32"	5/32"	99
CL-RU93		9/64"	5/32"	85
CL-RU100		5/64"	5/32"	175
CL-TU500		1/4"	5/32"	20

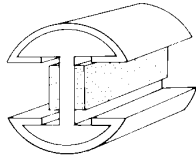
TABLE OF DECIMAL EQUIVALENTS

.016	1/64	.313	5/16
.031	1/32	.328	21/64
.047	3/64	.344	11/32
.063	1/16	.375	3/8
.094	3/32	.406	13/32
.109	7/64	.422	27/64
.125	1/8	.438	7/16
.141	9/64	.469	15/32
.156	5/32	.484	31/64
.172	11/64	.500	1/2
.188	3/16	.516	33/64
.203	13/64	.563	9/16
.219	7/32	.625	5/8
.234	15/64	.734	47/64
.250	1/4	.750	3/4
.266	17/64	.875	7/8
.281	9/32	.969	31/32
.297	19/64	1.000	1

SPECIALTY CAMES

PRO-GLAZE (BRASS CAPPED LEAD)

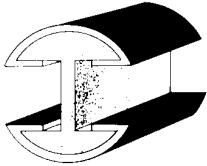
Catalog # *PMBC-1/4HRPG* (40 pieces per case)
 Catalog # *PMBC-7/32HRPG* (50 pieces per case)



A U.S. patented process where a thin foam strip is applied to the inside of the came, thereby cushioning the glass and eliminating the need for putty. Strips are 6' long.

DECRA CAME

Catalog # *PMW-7/32HR* White 7/32" H round 50 pieces per case
 Catalog # *PMBL-7/32HR* Black 7/32" H round 50 pieces per case
 Catalog # *PMW-1/4HR* White 1/4" H round 40 pieces per case
 Catalog # *PMBL-1/4HR* Black 1/4" H round 40 pieces per case
 Catalog # *PMW-1/4U* White 1/4" U shape 40 pieces per case
 Catalog # *PMBL-1/4U* Black 1/4" U shape 40 pieces per case



A white or black lacquer coated zinc which is roll formed over lead. This product is easy to bend and solder. Strips are 6' long.

SOFT BRASS

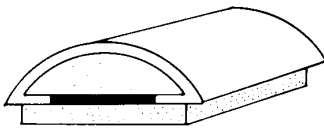
Catalog # *PMBZ-1/4HR* (40 pieces per case)
 Catalog # *PMBZ-7/32HR* (50 pieces per case)



Heavily brass plated zinc roll formed over lead giving it ultimate bendability and a highly polished brass appearance. Strips are 6' long.

OVERLAY PROFILE (BRASS CAPPED LEAD)

Catalog # *PMB-1/4D* (100 pieces per case)



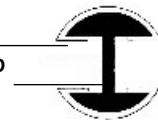
For applique process involving all styles of ornamental glasswork. This overlay is the highest quality and uses the most tenacious adhesive. Strips are 6' long.

COPPER JACKETED LEAD CAME

Catalog #
 CJL-7/32 HRound

COPPER JACKET

LEAD



REINFORCED LEAD CAME

Catalog #

RL-3/16 3/16-HRound
 RL-1/4 1/4 -HRound
 RL-45 3/8 -HFlat



BRASS JACKETED LEAD CAME

Catalog #
 BJL-3/16 3/16-HRound
 BJL-7/32 7/32-HRound
 BJL-1/4 1/4-HRound
 PMBC-1/4U 1/4 U

BRASS or ZINC JACKET

LEAD



ZINC JACKETED LEAD CAME

Catalog #

ZJL-7/32 7/32-HRound

NOTE: NET WT. PER CASE 45 LBS. 6 FT. LENGTHS

CASCADE ZINC, BRASS & COPPER

Sold in 6' lengths or 22# cases

CCB = BRASS CCC = COPPER CCZ = ZINC



CCB-3/16HR
CCC-3/16HR
CCZ-3/16HR



CCB-7/32HR
CCC-7/32HR
CCZ-7/32HR



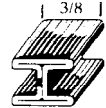
CCB-1/4HR
CCC-1/4HR
CCZ-1/4HR



CCB-7/32HF
CCC-7/32HF
CCZ-7/32HF



CCB-9/32HF
CCC-9/32HF
CCZ-9/32HF



CCB-3/8HF
CCC-3/8HF
CCZ-3/8HF



CCB-1/2HF
CCC-1/2HF
CCZ-1/2HF



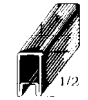
CCB-1/8U
CCC-1/8U
CCZ-1/8U



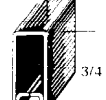
CCB-9/32U
CCC-9/32U
CCZ-9/32U



CCB-3/8U
CCC-3/8U
CCZ-3/8U



CCB-1/2U
CCC-1/2U
CCZ-1/2U



CCB-3/4U
CCC-3/4U
CCZ-3/4U

Catalog #	Face	Channel
CC?-3/16HR	3/16"	.156
CC?-7/32HR	7/32"	.156
CC?-1/4HR	1/4"	.156
CC?-7/32HF	7/32"	.140
CC?-9/32HF	9/32"	.160
CC?-3/8HF	3/8"	.156

Catalog #	Face	Channel
CC?-1/2HF	1/2"	.140
CC?-1/8U	1/8"	.156
CC?-9/32U	9/32"	.156
CC?-3/8U	3/8"	.156
CC?-1/2U	1/2"	.156
CC?-3/4U	3/4"	.156

LIL NOTCHER

Catalog # LN-45
LN-90

45° ANGLE MODEL
90° ANGLE MODEL



This notcher allows you to cut a perfect notch on both sides of an 1/8" "U" channel at the same time and be used with *Cascade* zinc (CCZ-1/8U), brass (CCB-1/8U) and copper (CCC-1/8U) came exclusively. The Notcher is available in 45° and 90° angle models.

CASCADE SOFT BRASS

Catalog # CCB-3/16HRS
Catalog # CCB-7/32HRS
Catalog # CCB-1/4HRS

CASCADE SOFT BRASS CAME
CASCADE SOFT BRASS CAME
CASCADE SOFT BRASS CAME



3/16"



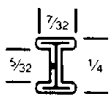
7/32"



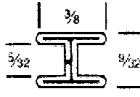
1/4"

CHICAGO METALLIC

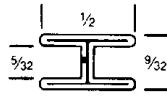
High quality zinc came provides additional strength to any stained glass panel, either for border support or internal strengthening. Chicago Metallic zincs are sold in 8' lengths.



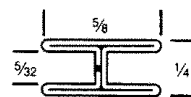
CMZ-7/32HF
7/32" Flat
Inner Bar



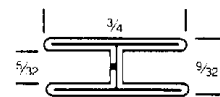
CMZ-3/8HF
3/8" Flat
Inner Bar



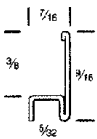
CMZ-1/2HF
1/2" Flat
Inner Bar



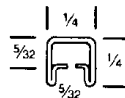
CMZ-5/8HF
5/8" Flat
Inner Bar



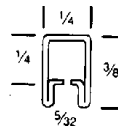
CMZ-3/4HF
3/4" Flat
Inner Bar



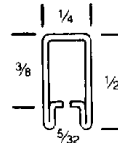
CMZ-9/16UH
9/16" h
Outer Bar



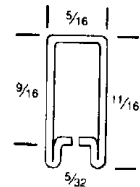
CMZ-1/4U
1/4" Flat
Outer Bar



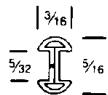
CMZ-3/8U
3/8" Flat
Outer Bar



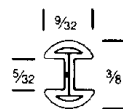
CMZ-1/2U
1/2" Flat
Outer Bar



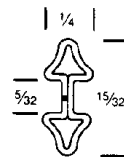
CMZ-11/16U
11/16" Flat
Inner Bar



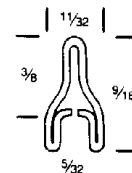
CMZ-3/16HR
3/16" Round
Inner Bar



CMZ-1/4HR
1/4" Round
Inner Bar



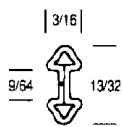
CMZ-1/4HC
1/4" Colonial
Inner Bar



CMZ-9/16Y
9/16" Contoured
Outer Bar

PRAIRIE DESIGN ZINC & COPPER CAME

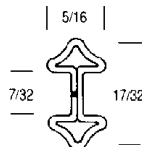
Prairie Design zinc and copper came are designed to be used in all the Frank Lloyd Wright lamp and window patterns. All the patterns have a corresponding came number. The "CMZ" catalog number prefix indicates zinc came. The "CMC" catalog number prefix indicates copper came. Zinc came comes in 8' lengths and copper came comes in 6' lengths.



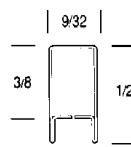
CMZ-2011
CMC-2011



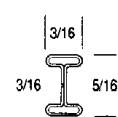
CMZ-2019
CMC-2019



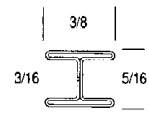
CMZ-2074
CMC-2074



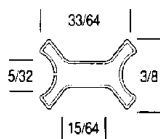
CMZ-2522
CMC-2522



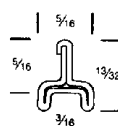
CMZ-2542
CMC-2542



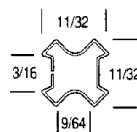
CMZ-2592
CMC-2592



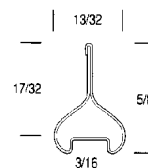
CMZ-2700
CMC-2700



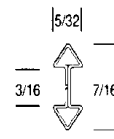
CMZ-2701
CMC-2701



CMZ-2702
CMC-2702



CMZ-2706
CMC-2706



CMZ-2707
CMC-2707

LEAD-FREE CAME & SOLDER



Catalog # LFC-3/32 U

Diamond Lead-Free Came is great for putting borders around small sun catchers, angels & ornaments. It will not tarnish over time and takes patinas beautifully. 3/32" face width and 1/8" hart. Melting point is 440 degrees. Requires low heat solder.



Catalog # 2007C

Diamond Lead-Free solder has been manufactured specifically for use with Diamond Lead-Free Came. It is recommended to use a reostat when using this solder because its melting point is just 281 degrees.

See Book #8891 for specific projects using Diamond Lead-Free Came and Solder

WIRE SOLDER

Catalog #	Description
2000CL	P.K. 50/50
2003CL	P.K. 60/40
2004CL	P.K. 63/37 (Ultimate)
2005CL	P.K. Lead Free

Catalog #	Description
2003L	Lucans 60/40

Lucans brand solder is an econy solder manufactured by Canfield Technologies

Catalog #	Description
2000C	Canfield 50/50
2003C	Canfield 60/40
2004C	Canfield 63/37 (Ultimate)
2004TC	Canfield 63/37 (Ultimate/Thin)
2005C	Canfield Lead Free (Pewter)
2006C	Canfield Quick Set

(All solder 1/8" Diameter Wire except 2004TC which is 1/16" Diameter. Sold in 1 lb. rolls)



Catalog # 2001C
SILVERGLEEM 496

Lead-free and non-toxic. Great for jewelry making instantly freezes. Buff it to a high shine or patina or antique. It is 20-50% stronger than 50/50 or 60/40, depending on the application. Sold in 1/2 pound spools.

SOLDER MAGIC, ACTION TIN

Catalog # 6222 1/2 lb. bottle

A fast tinning method for metals, lamp caps, wires, rebars, copper, brass, steel, and much more. Produces a bright shiny coating.



ZINC TOOLS

ZINC AND LEAD SAW

Catalog # ZS-1001SG-I (1/15 hp motor)
Catalog # ZS-1001HHP (1/10 hp motor)

A bench top power saw for cutting zinc or brass came. Comes with blade and chip deflection guard. A mitre guide and a fence is available as an option. Blade height adjusts to 3/4". Table top is 6 1/2" X 9".



MODEL 1001SG-I & 1001HHP ACCESSORIES

Catalog #	Description
ZS-8006	fixed 90° mitre guide
ZS-8008	fixed 45° mitre guide
ZS-8010	fixed 22 1/2° mitre guide
ZS-1099	chip deflector
ZS-1001SGE	eye guard

ARBOR & NUT

Catalog # ZS-1017

Replacement part for zinc and lead saws.

ZINC TOOLS (CONTINUED)

ZINC AND LEAD SAW DELUXE MODEL

Catalog # ZS-1010SG (1/16 hp motor)

Catalog # ZS-1011SG (1/15 hp motor)

This is the flagship model of the JARMAC line. A tilting arbor (up to 45°), and height adjustment set this saw apart from the ZS-1001SG-I. This unit also comes with an extra large (9" x 12") table, a ripping fence and a mitre guide.



MODEL 1010 AND 1011 ACCESSORIES

Catalog #	Description
ZS-8007	fixed 90° miter guide
ZS-8009	fixed 45° miter guide
ZS-8011	fixed 22 1/2° miter guide
ZS-1199	chip deflector
ZS-1010SGE	eye guard

- Catalog # ZS-1F **FINE REPLACEMENT BLADES**
 Catalog # ZS-1C **COARSE REPLACEMENT BLADES**
 Catalog # ZS-1FC **HEAVY DUTY CHROME BLADE**
 Catalog # ZS-3 **CARBORUNDUM BLADE**
 Catalog # ZS-8020 **NEW LIFE LUBRICATION KIT (USE WITH CHIP DEFLECTORS)**

ZINC BENDING MACHINE

Catalog # ZB-1



Designed for use with zinc, brass, and copper channel. Both "U" and "H" channels can be bent on the same set of rollers. The body is made of a strong aluminum frame that screws onto your workbench.

GRYPHON MITER SAW

Catalog #

MS-1 **Saw**

MS-1B **Blade**

MS-1C **Metal Blade**



Sized and powered for precision cutting, this saw provides premium cuts of thinwall tubing, preformed thin shapes, and solids of brass, zinc, steel, composite fibers or graphite in sizes up to 3/4" square. wt. approx. 15 lbs.

BRACING BAR

1/8 inch thick bars used to reinforce large window panels to prevent sagging or bowing. These bars are usually placed on edge and soldered where they make contact with lead came. All are available in 6' lengths.

STEEL (TIN COATED)

Catalog #

2020 1/8" X 3/8"

2021 1/8" X 1/2"

BRASS (SOLID)

Catalog #

2023 1/8" X 3/8"

2024 1/8" X 1/2"

REBAR BENDER

Catalog # RB-1



The BEND-IT rebar bender is designed for bending rebar right on top of the panel that you are working on. It's long lever arms make it easy to bend steel or brass rebar. It can do tight corners as well as gentle bends. A must have tool for anyone doing rebar work requiring bending.

RESTRIP

Catalog #

2026 5/32" X 25' roll

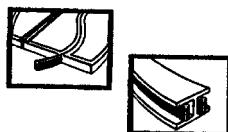
2027 5/32" X 100' roll



Virtually invisible, this ribbon-like hard copper fits in between foiled pieces to be soldered or it is inserted into the channel of lead to add strength and prevent sagging. Bends easily and can be incorporated into any design.

STRONG LINE

Catalog # SL25



Strong Line is a thin coppered steel strip used to strengthen your stained glass panel from the inside. Strong Line is the right size for copper foil and all lead channels. With Strong Line you see only the beauty of foil or lead lines... the feel has the strength of steel. From the Morton System.

COPPER FOIL

Pressure sensitive copper foil tape is used in making Tiffany type lamps and window panels. It is wrapped around each piece of glass to be soldered together. It affords the craftsman the opportunity to do much more intricate and detailed work.

VENTURE COPPER FOIL (1.5 MIL)		
Catalog #	Width	Ft. per roll
2007	1/8"	108'
2008	5/32"	108'
2010	3/16"	108'
2009	7/32"	108'
2011	1/4"	108'
2015	5/16"	108'
2012	3/8"	108'
2013	1/2"	108'
2014	6"	108'
2016	12"X12"	1.25 MIL

VENTURE COPPER FOIL (1.0 MIL)		
Catalog #	Width	Ft. per roll
2208	5/32"	108'
2210	3/16"	108'
2209	7/32"	108'
2211	1/4"	108'
2215	5/16"	108'
2212	3/8"	108'
2213	1/2"	108'
2214	6"	108'

VENTURE SILVERED COPPER FOIL (1.5 MIL)		
Catalog #	Width	Ft. per roll
2010S	3/16"	108'
2009S	7/32"	108'
2011S	1/4"	108'
2012S	3/8"	108'
2013S	1/2"	108'

VENTURE SILVERED BACKED COPPER FOIL (1.5 MIL)		
Catalog #	Width	Ft. per roll
2010SB	3/16"	108'
2009SB	7/32"	108'
2011SB	1/4"	108'

VENTURE BLACK BACK COPPER FOIL (1.25 MIL)		
Catalog #	Width	Ft. per roll
2010B	3/16"	108'
2009B	7/32"	108'
2011B	1/4"	108'
2012B	3/8"	108'
2013B	1/2"	108'

DECORATIVE COPPER FOIL
(5/16" X 1.5 MIL x 108').

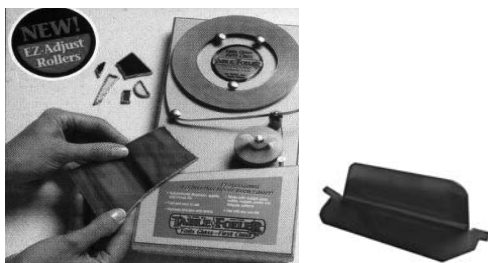
Catalog # 2015SC



An adhesive backed decorative copper foil tape with one edge cut in a scalloped design.

COPPER FOILING TOOLS

TABLE FOILER
Catalog # TF-1



The TABLE FOILER make glass foiling easier than ever. It dispenses, applies, & crimps foil smoothly and evenly. It comes with rollers for 3/16", 7/32", & 1/4" foil. The MAGIC FOIL CUTTER will allow you to easily cut off the foil without it sticking to your fingers.

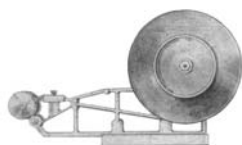
MAGIC FOIL CUTTER
Catalog # FC-1

MANUAL FOIL WRAPPING MACHINE
Catalog # FM-1



This machine can be used with 3/16", 7/32", and 1/4" copper foil. It dispenses the foil, centers it on the glass, and crimps the edges while automatically removing the backing. The FM-1 saves hours of time over traditional method of hand wrapping.

INLAND EDGEMASTER GLASS FOILER
Catalog # IM-2



Applies copper foil to all edges of stained glass. The foil application wheel automatically crimps the foil as it is being applied. A tension wheel prevents the foil from unraveling when foil isn't being drawn. The foil application wheel has a small diameter so that tight inside curves can still be foiled.

DEIGEL FOILER
Catalog # HM-500

Rollerpack
Catalog # HM-620

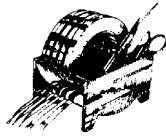


The Diegel Foiler is an indispensable tool for more accurate foiling in less time for the hobbyist and professional glass artist. The patented Guide Pin can center and off-center the foil onto the glass. This gives precise foiling even on bevels or ripple glass. The dual reels accept every size and type of foil in the industry. The rubber tension reel nut will never overtighten while foiling and the peel-off-blade effortlessly removes the paperbacking and pushes it away from the work area. Accuracy and speed makes this a must for every workshop.

COPPER FOILING TOOLS

THE COPPER FOIL DISPENSER

Catalog # FD-2



The copper foil dispenser is a must addition to every stained glass studio. Professionals and hobbyists alike will wonder how they ever got along without it.

3/16" HAND FOILER

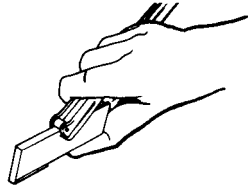
Catalog # GF-3/16"

7/32" HAND FOILER

Catalog # GF-7/32"

1/4" HAND FOILER

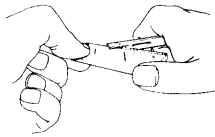
Catalog # GF-1/4"



A lightweight hand-held plastic foiler that quickly applies foil evenly around glass edges.

HAND CRIMPER

Catalog # GC-1



The accompanying tool to the hand foiler, this crimps the foil neatly and quickly around glass pieces.

FOILMATE

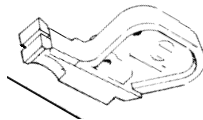
Catalog # 4026



Since the Foilmate burnishing tool utilizes a nylon roller for crimping, it will not tear the foil away from the edges of the glass when you are crimping. It also has grooves at the top end of the handle for doing the initial bending of the foil.

KWIK CRIMP

Catalog # KC-1

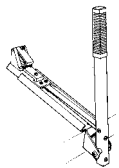
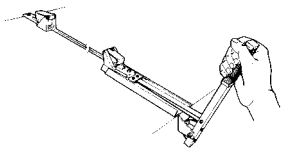


Burnishes foil to both sides and the edge of your glass quickly, efficiently, and with just one stroke.

MISCELLANEOUS

STANTON LEAD STRETCHER

Catalog # LS



The Stanton Stretcher is designed to fit any type of bench surface. This Stretcher is completely user friendly and hassle free. Made to facilitate any type of lead came on the market, makes it a welcome addition to any home or professional studio.

STANTON STRETCHER EXTENTION RAILS

Catalog # LS-R



Extension rails allow for ease of stretching any length of lead without constantly having to reposition the lead vice on your workbench.

LEAD VISE SPRING LOADED

Catalog # 4006-A



This spring loaded vise automatically clamps down on the lead came, eliminating those awkward (and possibly dangerous) false starts when stretching lead came.

LEAD VISE

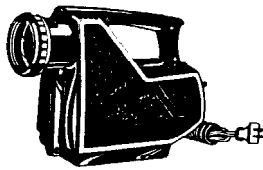
Catalog # 4125-PRO



Used to grip one end of your lead came while stretching it. Nails or screws down to edge of work bench. No spring on the vise.

PROJECTOSCOPE

Catalog # PRO-1



Projects an image from a book or small drawing onto a wall for easy enlargement of patterns. Photo size. 2 1/2" X 5".

VALVED PARTICULATE RESPIRATOR. pack of 10

Catalog # RSP-1

95% Filter efficiency level
Exhalation valve for extra comfort.
Inner foam provides a custom seal.
Dual head strp for optimum fit.



Catalog # RSP-2
FILTERED PARTICULATE RESPIRATOR w/VALVE

Rubberized half mask with adjustable head straps.
Exhalation valve and large filters for easy breathing.



GLASS HANDLING GLOVES

Catalog # 4020



General purpose gloves for handling glass, they have a Natural Rubber coating on the palm side.

POWER FLEX GLOVES

Catalog # 4023



General purpose gloves for handling glass, these gloves are tighter fitting and allow more dexterity.

CARBORUNDUM STONE

Catalog # 4005



Used for grinding down sharp edges. Can also be used for shaping but will leave chipped edges.

PUTTY STICK

Catalog # 4025



Pointed Wooden sticks for cleaning excess putty.

FID LEAD SPREADER

Catalog # 4008



For opening the channel of your lead came. Made of hardwood.

PLASTIC LATHEKIN

Catalog # 4019



Plastic lathekin for opening the channel of lead and smoothing foil on glass.

PLASTIC LATHEKIN

Catalog # AL-1



The AL-1 is a revolutionary 4-in-1 tool. It can be used as a lathekin, to burnish foil, as a stopping knife, or to clean excess putty off finished work. A MUST in every tool kit.

LATHEKIN

Catalog # 4127



This imported 4-in-1 tool can be used as a lathekin, stopping knife, putty cleaner, and to burnish foil.

HORSESHOE NAILS*Catalog # 4010*

Traditionally used nail because it minimizes gouges in lead and chips in glass. Sold by the box of 100.

DOUBLE FACED HAMMER*Catalog # 4021*

Plastic on one end for hammering nails, and rubber on the other end for tapping glass.

SAFETY GLASSES*Catalog # 4011*

Light weight, all clear plastic (Not Tinted). To prevent small particles from entering your eyes.

WIRE BRUSH*Catalog # 4012-S*

Steel Bristles

Catalog # 4012-B

Brass Bristles

4012-B

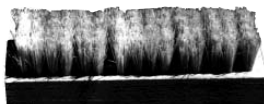
Used to clean areas to be soldered.

**BENCH BRUSH***Catalog # 4013*

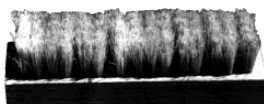
For cleaning your work table.

PUTTY BRUSH*Catalog # 4014*

For brushing in putty and cleaning your finished work. Size 3" X 8" Approx. Made of Tampico natural bristle.

**SMALL PUTTY BRUSH
(PLASTIC BRISTLE)***Catalog # 4014A*

For application of putty. Size 1 1/2" X 5" Approx. Plastic bristles.

**SMALL PUTTY BRUSH
(NATURAL BRISTLE)***Catalog # 4014B*

For application of putty. Size 1 1/2" X 5" Approx. . Same as above except it is made of Tampico natural bristles.

DAIRY BRUSH*Catalog # 4016*

Made of Tampico natural bristle.

LUSTER BRUSH*Catalog # 4017***BRUSH RE-FILL***Catalog #4017R*

PZAZS' natural bristle brush will clean the glass and polish the lead and patinaed copperfoil within seconds. Insert the shaft into any lightweight hand held power drill. Hold the brush at a slight angle on the project, running it right to left, then back and forth over a small area. Repeat. A 10 x 10 inch section should take no more than 20 seconds to polish.

ACID BRUSH*Catalog # 4015*

Used to apply flux or patina. Horse hair bristles.

SPONGE APPLICATOR*Catalog # 6030*

A very handy accessory for applying liquid patina or liquid flux.

DUAL CUT KNIFE

Catalog # DLC-K

**REPLACEMENT BLADES
(5 BLADES PER CARD)**

Catalog # DLC-RB

This double bladed knife is designed to be used with DUALCUT pattern paper part #DLC-P24R (see cat. page 3-13) comes packed with chuck for foil work and separate chuck for lead work.



SINGLE BLADE CRAFT KNIFE

Catalog # 4022

REPLACEMENT BLADES (5 BLADES PER CARD)

Catalog # 4022A

REPLACEMENT BLADES (BOX of 100 BLADES)

Catalog # 4022B



This tool is of sturdy aluminum construction. It is used to cut patterns, stencils or other paper products.

RULEX™ ADJUSTABLE SQUARE

Catalog # IA-60518

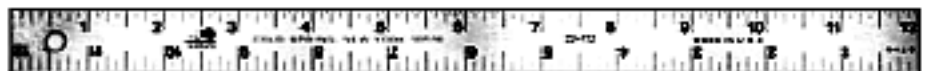
A scoring square with an angle adjustment for finding, duplicating and scoring angles between and including 0° to 135°.



FAIRGATE NON-SKID RULER

Catalog #	LENGTH
OE9-12	12"
OE9-18	18"
OE9-24	24"

A hard aluminum rule with screened calibrations. The corked back prevents it from moving while being used.



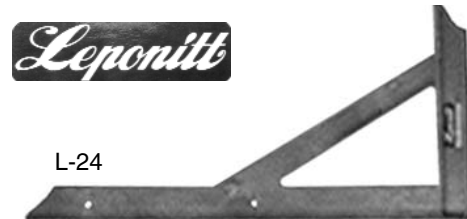
PLASTIC GLASS CUTTING L-SQUARE

Catalog #	LENGTH	COLOR
L-12	12"	BLACK
L-12PK	12"	PINK
L-12PR	12"	PURPLE
L-12TQ	12"	TURQUOISE
L-18	18"	TAN
L-24	24"	TAN
L-37	36"	TAN
L-50	50"	TAN

These plastic "L" squares are durable and inexpensive. The mini "L" square (L-12) is made of a tough non-abrasive material that will not scratch glass or warp out of shape. It is light and easy to maneuver so it is ideal for cutting small mirror squares or picture frame glass. The larger "L" squares (L-18, L-24, L-37 and L-50) are made of a strong and rugged but lightweight material that will not fracture or chip the straight edges nor will it scratch the glass. The manufacturer's specifications boast a one millimeter tolerance in 48 inches for these one piece impact mold squares.



L-12



L-24

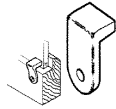
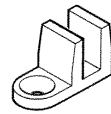
Also see Grinder Section for Catalog #306090 which is a combination square and grinder attachment.

DESIGNER GLASS CLIPS

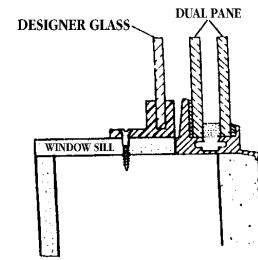
Catalog # DGC-3 1/4" MINI-CLIP
Package of 25

Catalog # DGC-5 Adjustable Clip
Package of 25

*Catalog # DGC-4 1/4" CABINET GLASS CLIP
Package of 25 clips and 25 screws
** Available in Clear, Brown and White



Designer clips are used to secure any type of glass into an existing area. Available in all sizes shown.



The mini-clip is absolutely clear.

Catalog # FH-1 HOOKS (PAIR)

Attractive brass hooks(4 screws included) for hanging your finished windows.



FS-1 BRASS FRAMING SCREWS (4 pkg. - 15/8")

Attractive brass screws for screwing corners of wood frames together when making custom frames.



HANDY HANGERS (BRASS)

50 pcs. per bag.
Catalog # HH-1



Catalog # OE-500S
Catalog # OE-500B
Catalog # OE-500C

(CURVED FLAT) BOX CHAIN



Catalog # OE-600S

LADDER CHAIN



Catalog # OE-700S
Catalog # OE-700B

SPROCKET CHAIN



Catalog # OE-800B

#14 JACK CHAIN

Catalog # OE-900B
Catalog # OE-900BN

#16 JACK CHAIN

B=Brass BN=Black Nickle C=Copper S=Silver

COPPER WIRE

Catalog # OE-7

This 16 GA. copper wire is used to reinforce lamps or to make small hinges for boxes. 23' Long.



16 GA. PRE-TINNED COPPER WIRE

Catalog # OE-7-S16 22 ft.

18 GA. PRE-TINNED COPPER WIRE

Catalog # OE-7-S18 34 ft.



This copper wire is pre-tinned and ready to patina. Used to construct loops for hanging or for other similar projects.

JUMP RINGS (BRASS)

Packaged in 1oz. poly bag
Catalog # JR-RND4 1/4"
Catalog # JR-RND8 3/8"



SUCTION CUPS (15/8")

Catalog # OE-6

15/8" Suction cups with a wrap-around metal hook for hanging larger items.



SUCTION BUTTONS (3/4")

Catalog # OE-300

Little suction cups only 3/4" in diameter. Great for hanging little trinkets.



INNER TUBE ONLY

Catalog # OE-2A

OUTER TUBE ONLY

Catalog # OE-2B



This type of hinge is used on boxes and terrariums. The outer brass tube is 3/32". The inner brass tube is 1/16". The outer tube rotates over the inner tube. The picture above is what the hinge looks like after tubes are cut and fitted. Rods are 12" long.

Catalog # OE-3 **PATTERN PAPER**
Oil impregnated, size 24" X 36"

Catalog # OE-4 **CARBON PAPER**
Size 24" X 36"

Catalog # DLC-P24R **DUALCUT PATTERN PAPER**
For use with DUALCUT pattern cutting knife(DLC-K).
This cut , peel, and stick pattern paper is made of memory vinyl that when streched a little will return to original size. Simply trace your full pattern onto the DUALCUT paper, use doublebladed DUALCUT knife to cut lines of pattern out, then peel pattern pieces off and apply to well cleaned glass surface.
See Page 3-11 for DUALCUT knife (DLC-K).

Catalog # 1770 **DOUBLE STICK TAPE (1/2" X 12 YD.)**
Catalog # 1771 **DOUBLE STICK TAPE (1/2" X 36 YD.)**

Great for sticking patterns to glass.

VENTURE TAPE VINYL RESIST

Catalog # 470W **WHITE SANDBLAST RESIST TAPE, 4 mil thick**
Catalog # 470C **CLEAR SANDBLAST RESIST TAPE, 4 mil thick**

Catalog # 480W **WHITE SANDBLAST RESIST TAPE, 8 mil thick**
Catalog # 480C **CLEAR SANDBLAST RESIST TAPE, 8 mil thick**

Size 12" X 60', white or clear with a release liner. You write on surface with pen, pencil or carbon paper. May also be used in etching. This tape releases easily from glass.

ANCHOR TAPE RUBBER RESIST

Catalog # ANC-120-25 **WHITE SANDBLAST RESIST TAPE, 39 mil thick, 25"X10 yds**
Catalog # ANC-128-25 **WHITE SANDBLAST RESIST TAPE, 24 mil thick, 25"X10 yds**
Catalog # ANC-128-30 **WHITE SANDBLAST RESIST TAPE, 24 mil thick, 30"X10 yds**

STENCIL BURNER

Catalog # STEN (Stencil Burner, pin tip included)



For cutting Acetate, Mylar, Frisket, Pellon, and other plastic-based stencilling materials. The fine "pin" tip was designed to produce a sharp, clean edge in burning. The blunt tip creates a wider path for outline stencils or for effects requiring a broader line out. Blunt tip and stand sold separately.

DURAINK PEN

Catalog # OE-12

Black felt tip marking pen.



SHARPIE PEN

METALLIC SILVER

Catalog # OE-13

Metalic Silver felt tip pen.



WHITE MARKER

Catalog # OE-14

A quick-drying white felt tip marker. Opaque ink will not wash off while grinding.



GREASE PENCIL

Catalog # OE-15

Most common pencil used on glass surfaces. Available in yellow only.



METALLIC MARKERS

Catalog # NIJI-S (Small Tip)

Catalog # NIJI-X (Extra Fine Tip)

Catalog # NIJI-L (Extra large)

Available in gold and three sizes: Small nib and extra fine. Used to color solder joints when using brass came.



LUMO LUMOCOLOR MARKERS

Catalog # LU-317B (Medium Blk)

Catalog # LU-318B (Fine Blk)

Catalog # LU-318R (Fine Red)

Available in Black and Red. Lumo Markers contain water-proof ink, will not lift off in grinding process.



McNEIL SOLID OAK FRAMES

McNeil frames are of the highest quality Appalachian and Northern red oak. They are available in these most popular sizes. Frames are fully assembled. Ovals with (*) are straight grain one piece construction. **Note: MCN-36** must ship Freight Common Carrier.

Catalog #		Opening for Glass	Catalog #		Opening for Glass
MCN-12	Round	12 1/8"	MCN-12X24	Rectangle	12 1/8" X 24 1/8"
MCN-15	Round	15 1/8"	MCN-12X30	Rectangle	12 1/8" X 30 1/8"
MCN-16	Round	16 1/8"	MCN-12X36	Rectangle	12 1/8" X 36 1/8"
MCN-18	Round	18 1/8"	MCN-16X20	Rectangle	16 1/8" X 20 1/8"
MCN-20	Round	20 1/8"	MCN-18X24	Rectangle	18 1/8" X 24 1/8"
MCN-22	Round	22 1/8"	MCN-20X24	Rectangle	20 1/8" X 24 1/8"
MCN-24	Round	24 1/8"	MCN-20X28	Rectangle	20 1/8" X 28 1/8"
MCN-30	Round	30 1/8"	MCN-22X34	Rectangle	22 1/8" X 34 1/8"
MCN-36	Round	36 1/8"	MCN-24X28	Rectangle	24 1/8" X 28 1/8"
MCN-6	Round*	6 1/8"	MCN-24X36	Rectangle	24 1/8" X 36 1/8"
MCN-10	Round*	10 1/8"	MCN-22X22	Square	22 1/8" X 22 1/8"
MCN-14	Round*	14 1/8"	MCN-8X10	Rect. (Stapled)	8 1/8" X 10 1/8"
MCN-O1	Oval	17 1/2" X 28 3/8"	MCN-11X14	Rect. (Stapled)	11 1/8" X 14 1/8"
MCN-O2	Oval	16 1/8" X 20 1/8"	MCN-12X17	Rect. (Stapled)	12 1/8" X 17 1/8"
MCN-O3	Oval	13 3/8" X 23 7/8"	MCN-12X12	Square (Stapled)	12 1/8" X 12 1/8"
MCN-O4	Oval	12 7/8" X 20 3/8"	MCN-10X10	Square (Stapled)	10 3/8" X 10 3/8"
MCN-O5	Oval	12 1/8" X 16 1/8"	MCN-R11X14	Rounded Rectangle	11 1/8" X 14 1/8"
MCN-O6	Oval	25 3/8" X 36 1/8"	MCN-R16X20	Rounded Rectangle	16 1/8" X 20 1/8"
MCN-A	Oval*	12 1/8" X 22 7/8"	MCN-SS12	12" Soft Square	12 1/8" X 12 1/8"
MCN-B	Oval*	7 5/8" X 18 1/2"	MCN-SS16	16" Soft Square	16 1/8" X 16 1/8"
MCN-C	Oval*	5 1/8" X 14 3/4"	MCN-RS12	Round in a Square	12 1/8" X 12 1/8"
MCN-F	Oval*	8 1/8" X 12 1/8"	MCN-CATH	Cathedral	12 1/8" X 35 1/8"
MCN-G	Oval*	11 1/8" X 14 1/8"	MCN-CFR	Rectangle Clock Frame	9 3/4" X 15 3/4"
MCN-H	Oval*	8 1/8" X 10 1/8"	MCN-CFO	Octagon Clock Frame	13 3/4"
MCN-I	Oval*	5 1/8" X 7 1/8"	MCN-CFP	Pendulum Clock Frame	9 3/4" X 21 3/4"
MCN-NO	Near Oval	12 1/8" X 20 1/8"	MCN-HEART	Oak Frame, Heart in circle	
MCN-RTO	Race Track Oval	15 1/8" X 34"	MCN-HRWS	Half Round with Shelf	24 1/8" X 12 1/8"
MCN-CWS	Cathedral with Shelf	12 1/8" X 30 1/8"			

FRAME STOCK

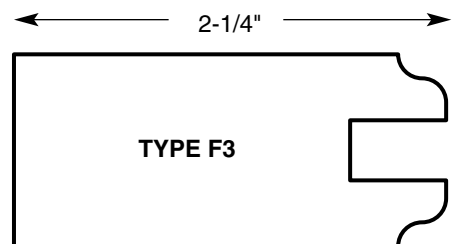
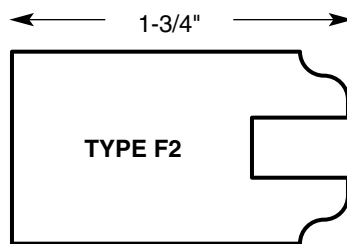
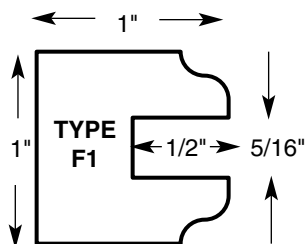
SOLID OAK FRAME

Catalog #	Size
OF-1	1" X 1" X 6'
OF-2	1" X 1 3/4" X 6'
OF-3	1" X 2 1/4" X 6'

ALL MATERIAL IS SMOOTH RED OAK OR MAHOGANY. ACCOMMODATES EITHER LEAD OR ZINC.

SOLID MAHOGANY FRAME

Catalog #	Size
MF-1	1" X 1" X 6'
MF-2	1" X 1 3/4" X 6'
MF-3	1" X 2 1/4" X 6'



OAK FRAME STOCK

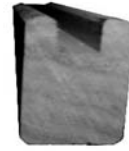
HARDWOOD STRIPS

Catalog # OF-1N **OAK STRIP 1" X 1 3/8" X 6'**

Catalog # OF-CB **OAK, Corner Brackets and hardware**



OAK, Corner Brackets
OF-CB



Oak Framing Stock
OF-1N

COLOR MAGIC PAINTS

COLOR MAGIC

Shake the bottle Gently before using. The opaques, gold, silver, and glitter stains settle; they contain small metal balls in the bottom which help to thoroughly mix the liquid. For best results when using gold and silver or opaque stains, turn the bottles upside down for about 30 minutes, and then shake gently.

Caution: Do not shake a partially filled bottle as vigorously as you would a full one. **SHAKE CAUTIOUSLY !**

Drying times: Although the stains appear to be dry to the touch within 5 to 10 minutes, let them dry to a hard finish overnight. Glitter coats take approximately 15 to 20 minutes to dry.

Because of varying humidity and temperature, Color Magic drying times may vary. Color Magic has its own sheen, and polishing is unnecessary.

Gold & Silver: Due to the metallic composition of the gold and silver stain, the brush may be hard when you first open the bottle. Soften by cleaning off with a small amount of solvent. Once applied, gold or silver will appear muddy, however, once they have dried, they will become shiny.

Mixing: Transparent and opaque stains can be mixed together to create other color variations. For instance, white mixed with any transparent will create a pastel.

Glitter Coats: The three glitter coats are shimmering accent stains that can be used alone or applied over any color.

UV Sealant (bottle or spray): The UV Sealant adds a protective coat that inhibits fading from sunlight. Apply UV sealant after the stain application has dried for 24 hours, and allow the UV Sealant to dry for at least another 24 hours.

To speed up the drying process of the UV sealant, blow warm air from a hair dryer directly on the wet UV sealant. Do not use a hair dryer on the color stains.

Storing: Store Color Magic tightly capped in a cool dry place.

Solvent: Use solvent/Thinner to remove unwanted stain from glass, metal, or hands.

For more instructions on applying stains with brush or aerospray refer to

Book: *Brush on color Magic* by Kan Bain Weiner, **CAT #8391**

INDIVIDUAL PAINTS 1/2oz. (Except U/V Spray) (op) = Opal (tr) = Transparent Colors

PAINT KITS

Catalog#	Description	Catalog#	Description	Catalog#	Description	Catalog#	Description
CMP-A	Apricot (tr)	CMP-PO	Pink (op)	CMP-ASI	Original Kit	CMP-AS2	Kit
CMP-AB	Antique Bronze	CMP-SPG	Spring Green		(includes)		
CMP-BC	Bright Copper	CMP-TQ	Turquoise				Bright Gold (op)
CMP-BO	Black Onyx (tr)	CMP-RP	Red Poppy (op)				Sun Yellow (op)
CMP-C	Copper	CMP-SG	Silver Glitter Coat		Red Poppy (op)		Violet (op)
CMP-FT	Flesh Tone	CMP-SYO	Sun Yellow (op)		Kelly Green (op)		Topaz Brown (tr)
CMP-G	Bright Gold (op)	CMP-SS	Shiny Silver (op)		Lapis Blue (op)		Shiny Silver (op)
CMP-GG	Gold Glitter Coat	CMP-T	Topaz Brown (tr)		Ruby Red (tr)		Apricot (tr)
CMP-HP	Hot Pink	CMP-TB	Teal Blue (tr)		Lemon Yellow		Pink (op)
CMP-IF	Iridescent Frost	CMP-VO	Violet (op)	(tr)			Iridescent Glitter
CMP-IG	Iridescent Glitter Coat	CMP-WH	Snow White (op)		Leaf Green (tr)		
		CMP-Y	Lemon Yellow (tr)		Teal Blue (tr)	Coat	
CMP-KG	Kelly Green (op)				Royal Blue (tr)		Silver Glitter Coat
CMP-LB	Lapis Blue (op)	CMP-UV	Pro-Coat. with U/V Inhibitor		Vivid Purple (tr)		Gold Glitter Coat
CMP-LG	Leaf Green (tr)				Snow White (op)		Pro-Coat with U/V Inhibitor
CMP-MB	Matte Black	CMP-UV-S	Pro-Coat 16oz. Spray with U/V Inhibitor		Black Onyx (tr)		
CMP-MG	Medium Grey(op)				Thinner Solvent		Thinner Solvent
CMP-P	Vivid Purple (tr)	CMP-TH	Thinner				
CMP-PCH	Peach(op)						

OPTICAL GLUE & ACCESSORIES

KEMXERT OPTICAL ADHESIVE

Catalog # 6221C 35 ml. (1oz.) bottle



K.O.A. 300 ultra violet activated adhesive is ideal for bonding glass and other materials. Requires an ultra violet light source (UV light or the sun) and the ability for that light to reach the two surfaces being bonded.

UV PROTECTIVE GLASSES

Catalog # 4011UV



Designed to fit firmly and comfortably on your face and block out UV light from all angles. Protector is made of Polycarbonate (clear non-tinted).

OPTICAL ADHESIVE ACTIVATION LAMP

Catalog # UV-L1



Used to activate optical adhesive. Has a suction cup to use right where you need it.

OPTICAL ADHESIVE ACTIVATION LAMP

Catalog # UV-L2

Catalog # UV-L2RB

Replacement Bulb.

More powerful ultraviolet lamp that will cure uv glue at a faster rate. Will give more penetration on harder to cure colored glasses.



HOLDERS

INLAND GLASS STATION™

Catalog # IA-GS

The Inland Glass Station organizes your studio work area with this handy tray. Its features include built in soldering stand, a dispenser that holds up to 4 rolls of foil, a solder roll feeder and a no spill flux bottle and brush holder. There is also enough space for glass cutters, scissors, x-acto knives, etc.



 inland

BOTTLES AND CAPS

Catalog # OE-10 4 oz.

We offer wide mouth bottles with safety caps for studios or stores who wish to buy bulk chemicals and bottle their own.



NO-SPILL CHEMICAL HOLDER

Catalog # IM-CH

4 ounce Chemical Bottle Holder, built wide and low to the bench, it holds your chemical bottles, keeps them from being knocked over by soldering cords and careless hand swipes. It can be used to hold flux, patina and cutting oil bottles.



SPRAY GUNS

Catalog # FS7814

BADGER SPRAY GUN

Catalog # FS7814A
For use with FS7814.

PROPEL

This spray gun is used for applying spray "A" overglaze to the surface of your glass before firing, it can also be used for spraying paints. The spray pattern can be adjusted from 3/4" to 2".



CHEMICALS

ORGANIC FLUX STICK

Catalog # 6010

Great for use with copper foil. Simply trace over copperfoil lines and solder. No messy clean up involved.



NOKORODE FLUX, 1.7 oz. PASTE

Catalog # 6020 1.7 oz. tin

Catalog # 6020L 1 lb. tin

A useful product for those hard-to-get-to soldering jobs (on-site repairs, bevels, etc.) in that it does not drip or run.



GLASFLUX

* Catalog # 6200 4 oz. bottle

** Catalog # 6200G 1 gallon

Glasflux is a popular flux which can be used on either lead or copper foiled work. It rinses easily with water and has no unpleasant fumes. Non-acid; comes with safety cap.

* Cannot be shipped by air or U.S. Mail.

** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



ALL PURPOSE "LA-CO" FLUX

Catalog # 6000 4 oz. bottle

Catalog # 6000P 1 pint

Catalog # 6000G 1 gallon

Catalog # 6100 4 oz., paste

Flux is brushed on before soldering to deoxidize the lead, zinc, or copper foil, for a strong and neat solder joint. "La-Co" is non-acid, non-toxic, and is water soluble.



CHEMICALS

SOLDER MATE II™

*Catalog # 6001 5.4oz.

Made especially for the stained glass industry. Zinc chloride base Canfield brand.

* Cannot be shipped by air or U.S. Mail.



BLUE-GLASS FLUX™

*Catalog # 6224 8oz.

Made especially for the stained glass industry. Zinc chloride base Canfield brand.

* Cannot be shipped by air or U.S. Mail.



CLASSIC 100 GEL FLUX

*Catalog # 6226 4 oz
Catalog # 6226HP 8oz

The first odorless, non-smoking flux for copper foil, lead and zinc came. Easy to use, works with traditional and lead-free solders. Cleans quickly with water and is non-corroding after washing.

* Cannot be shipped by air or U.S. Mail.



OLEIC ACID

Catalog # 6002 4 oz. bottle
Catalog # 6002G 1 gallon

A flux specifically used for soldering lead came.



BLACK PATINA FOR SOLDER

* Catalog # 6006 4 oz. bottle
** Catalog # 6006G 1 gallon

A chemical used to darken all lead and solder. Surfaces to be treated should be free of flux and dirt. Comes with safety cap.

* Cannot be shipped by air or U.S. Mail.

** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



BLACK PATINA FOR ZINC

* Catalog # 6021 4oz. bottle
* Catalog # 6021G 1 gallon

A chemical used to darken zinc. Surfaces treated should be free of flux and oil. Comes with safety cap.

* Cannot be shipped by air or U.S. Mail.

** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



COPPER PATINA FOR SOLDER

Catalog # 6202 4 oz. bottle
Catalog # 6202G 1 gallon

A chemical used to antique all soldered surfaces to a copper or bronze color. Surfaces to be treated should be free of flux and oil. Comes with safety cap.

* Cannot be shipped by air or U.S. Mail.

** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



COPPER SULFATE CRYSTALS

Catalog # 6009 1 lb. container

These crystals are applied with a damp cloth or dissolved in warm water to a solution and applied to soldered area to give it a copper or bronze antique effect.



BLACK PATINA FOR LEAD AND SOLDER

- * Catalog # 6037 8 oz. bottle
- ** Catalog # 6037G 1 gallon

A chemical used to darken all lead and solder. Surfaces to be treated should be free of flux and dirt. By Classique.

- * Cannot be shipped by air or U.S. Mail.
- ** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



BLACK PATINA FOR ZINC AND SOLDER

- * Catalog # 6042 8 oz. bottle
- ** Catalog # 6042G 1 gallon

A chemical used to darken zinc. Surfaces treated should be free of flux and oil. By Classique.

- * Cannot be shipped by air or U.S. Mail.
- ** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



ANTIQUE BRASS PATINA

- Catalog # 6029 8oz. bottle

A chemical used to add color to all lead and solder. Surfaces to be treated should be free of flux and dirt. By Classique.

- * Cannot be shipped by air or U.S. Mail.
- ** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



COPPER PATINA FOR SOLDER

- * Catalog # 6036 8 oz. bottle
- ** Catalog # 6036G 1 gallon

A chemical used to antique all soldered surfaces to a copper or bronze color. Surfaces to be treated should be free of flux and oil. By Classique.

- * Cannot be shipped by air or U.S. Mail.
- ** Cannot be shipped by air or U.S. Mail. Can be shipped UPS in separate package with hazard charge.



FLUX AND PATINA RESIDUE REMOVER

- Catalog # 6038, 8oz
- Catalog # 6038G gallon

Neutra 5000 will effectively neutralize and dissolve corrosive by-products left after soldering and patina application



OXY-STOP Stained Glass Cleaner

- Catalog # 6228P 16 oz.
- Catalog # 6228G gallon

A one-step wonder cleaner. Original, non-toxic, non-caustic, non-corrosive



FINISHING COMPOUND

- Catalog # 6215 12 oz.
- Catalog # 6215G 1 gallon

Adds luster and protects lead, brass, copper, solder, and most patina finishes. Cleans and waxes glass to a brilliant shine.



KWIK CLEAN

- Catalog # 6040 16 Fl. oz.
- Catalog # 6040G Gallon

Flux and Patina Cleaner, eliminates white Mold. Use throughout your stained glass project to clean contaminants, oil and flux to a streak free shine on the solder, came and glass.



SIMICHROME POLISH

Catalog # 6019 1 3/4 oz. tube

Simichrome polish is used to polish copper patinaed surfaces to a brilliant finish.



GLASS CLEANER

* Catalog # 6012 22 oz. spray can

A special glass cleaner made especially for the glass industry and sold only through the glass industry. It is professional strength and does not leave a film.



* Cannot be shipped by air or U.S. Mail.

CUTTING OIL

Catalog # 6004 4 oz. bottle
Catalog # 6004G 1 gallon

This is a special blend of oil for proper lubrication of all glass cutters including the supercutters.



D-LEAD HAND SOAP

Catalog # 6028HP 8 oz.
Catalog # 6028Q Quart
Catalog # 6028G Gallon

A specially formulated soap to remove heavy metals from the skin and pores. It is especially effective as a cleansing agent for lead, nickel, cadmium, cobalt, zinc, mercury, copper and silver. Grease and grime rinse away with the heavy metals. Rinses clean!



CUTTING OIL-WATER SOLUBLE

Catalog # 6211 4 oz. bottle

A water soluble cutting oil that prolongs cutter life, lubricates and saves clean-up time by rinsing off instantly. Chemically neutral.



SUPERCUTTER CUTTING OIL

Catalog # 6213 4 oz. bottle

A synthetic lubricant specially formulated for Toyo supercutters. It is non-corrosive and water soluble.



AMCHEM STAINED GLASS PUTTY

* Catalog # 6216G 1 gallon
** Catalog # 6216Q 1 quart
Catalog # 6216P 1 pint
Catalog # 6216HP 1/2 pint

A pre-darkened putty designed specifically for the stained glass trade. Available in four convenient sizes.



“DAP” WEATHER SEALANT # 1012

Catalog # 6015Q 1 quart can
Catalog # 6015G 1 gallon can

A grey colored putty which is used to seal, weather proof, and strengthen stained glass windows.



PUTTY BLACKENER

Catalog # 6217 1 lb. box

Used to darken putty.



WHITING

Catalog # 6017 1 1/2 lb. container
Catalog # 6017-50 50 lb. bag

Whiting is a powder used in the process of weatherproofing and cleaning your stained glass window by removing excess putty.



SCREEN ETCH®

- * Catalog # 6011 4 oz. bottle
- * Catalog # 6011P 1 1/2 lb.
- * Catalog # 6011G 10 lb.

A ready-to use chemical used to frost the surface of any type of glass.

* Cannot be shipped by air or U.S. Mail.
© McKay Brand Registered Trademark



Etch All® Etching Cream

- Catalog # 6231 4 oz.
- Catalog # 6231P 16 oz.
- Catalog # 6231Q 32 oz.

A non acid reusable cream etches glass, mirror, ceramic glazes, porcelain and marble. Can also be used to finger print proof sandblasted areas.



Etch All® Dip 'n Etch

- Catalog # 6232 4 oz.
- Catalog # 6232P 16 oz.
- Catalog # 6232Q 32 oz.

A non acid reusable liquid for glass, mirror and matting glass beads. Can be used to finger print proof etched areas for painting.



EZ-GRIND COOLANT

- Catalog # 6034 8 oz. bottle

When added to reservoir water, advanced formula EZ-Grind eliminates friction, heat wear and suction drag caused by grinding or sawing glass. When used properly, EZ-Grind will prolong the life of your diamond cutting products as well as increase cutting speed EZ-Grind contains an advanced lubricant which is designed to facilitate easier clean up of glass particles from grinder reservoir.



TIP TINNER/CLEANER

- Catalog # 6043 15g / 0.5oz

Used for cleaning and tinning soldering iron tips.



SAL AMMONIAC BLOCK

- Catalog # 6024 8 oz. block

A solid block of Sal Ammoniac used for cleaning and tinning soldering iron tips.



EDGE SEALANT, MIRROR

- * Catalog # 6025 16 oz. Bottle

Protects mirror backing from corrosion caused by flux and other corrosive materials.



BLUESTIK

- Catalog # 6039

Bluestik secures glass pieces to pattern allowing you to move project on layout board without the glass pieces shifting. It takes very little on each piece of glass to hold pieces in place. Easily removable, and reusable when used with clean hands. 1 oz. pk.



CLEAR SILICONE SEALANT

- Catalog # 6219 2.8 oz. tube

Easy to use. Glues, waterproofs, seals, and insulates. Not for use with mirror.



WELDBOND MULTIPURPOSE GLUE

- Catalog # 6022 8 oz. bottle
- Catalog # 6022G Gallon

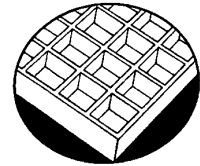


MORTON SYSTEM

The Morton System *Don't Do Glass Without It!*

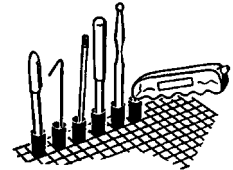
A **Morton Surface** permits glass crafting anywhere in the home. Because glass chips fall into the surface pockets, your work area stays clean.

The **Mini Surface (SS02)** measures 14 1/4" by 22 1/2". The Mini Surface is a popular starting place for many hobbyists and is the size used with the Thrifty Light Kit and the Tool Box.



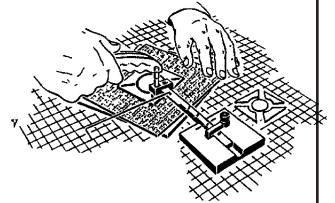
The **Maxi Surface (LS01)** measures 22 1/2" by 31 3/4". The Maxi Surface and the Portable Glass Shop make the ultimate glass working tool.

The **Super Mini Surface (SM03)** measures 22 1/2" by 15 3/8". Includes 15" cutting bar that will work with PG01 or PG01B. Same function as LS01 except it takes less workspace.

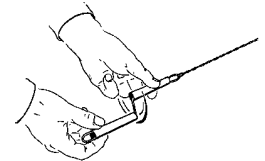


The **Cutter Caddy (CC06)** is a handy way to keep your Morton Surface organized. Use the six durable plastic holders for cutters, glass markers, pencils... and more.

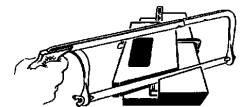
The **Teeny Circle Guide (TCS1)** teams up with the turn table to make a great cutting jig. Circles range from as small as you can break to 7". Instructions for making circles and a whole lot more make this accessory a must for anyone working with glass.



Use the **Morton Twister (MT01)** to twist copper wire, brass wire and lead came. Create your own decorative edge trim with this easy to use tool.



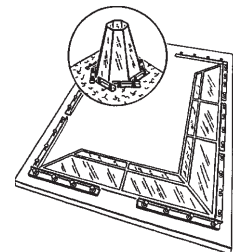
The **Clean Cut (ZM01)** will make perfect 45-degree border miters and accurate 90-degree cuts with a standard hacksaw. The miter vise is designed to hold but not crush the zinc, copper, lead or brass. Be sure to have this tool in your workshop.



The **Layout System** replaces the wood board and strips of the project board. The system is easy to use, easy to clean and easy to store. By utilizing inexpensive softboard you save with each project.

The **Layout Block System (LB01)** is the starter set. Projects up to 16" by 26" can easily be accomplished. Includes ten 6-inch blocks 40 pins.

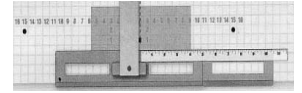
The **Layout Add-Ons** make the base system more flexible. The **12-inch Layout Add-Ons (LB02)** contain four 12" blocks four 3" blocks and 40 pins and greatly increase the capacity of the base system. The **23-inch Layout Add-Ons (LB23)** contains 2 blocks and 16 pins. The **17-inch Layout Add-Ons (LB17)** contains 2 blocks and 16 pins. The **Pins (LB16)** contains 16 pins.



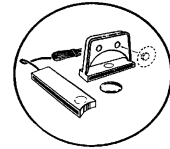
The **Studio Cutting Bar (PG03)** is a 31-inch straight edge for the Glass Shop. The Studio Bar expands the Glass Shop for work with larger sheets of glass.

MORTON SYSTEM

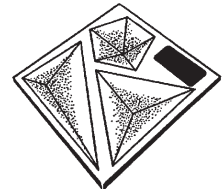
The **Fence Extension & Ruler (PG02B)** lets you copy angles and sizes from a pattern. Any angle can be transferred to the Glass Shop. A special ruler helps you size the piece to be made and allow for the glass cutter at the same time. The protractor has a special fixture to help set the Glass Shop bar. This item now comes with the PG01.



The **Safety Break System (SB01)** gives control of the breaking process. The Morton Runner improves power and control of hand breaking. Today's Safety Break has a different look than in 1980. Through many changes, the integrity of the original block and button is still intact. The Safety Break will start the break anywhere. Starting in from the edge helps to save long slender points and the added control of the break will help reduce flaring. Control means less grinding. The Morton Runner gives the finesse and speed of hand breaking with an additional advantage. The design evens the pressure and results in a break free of flares. The Morton Runner comes with a handy neck strap. Although it may seem unusual at first to wear your glass breaker, after using the Runner you won't get dressed without it.



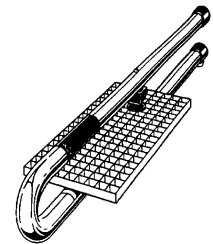
The **GS Assembly Tray (PG05)** is our idea of project assembly. Several step-by-step projects are included with the tray. Using squares, rectangles, triangles or pentagons, projects are quickly assembled into jewelry boxes, fancy paperweights, a lamp and much more. The Assembly Tray is the perfect reason to own the Glass Shop.



Strip cutting setups and multiple angle setups are reasons for extra **Glass Stops (PG06B)** Package of 5 glass stops.

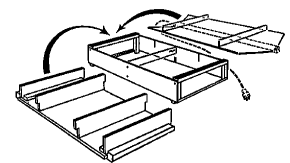


The gentle power of the **Safety Break M-80 (SB80)** will break thick or thin glass. In textured or rippled art glass it is difficult to achieve the perfect score. The M-80 has the effortless power to start the break anywhere along the score and the control gives a good break with even less than a perfect score. Beginner or expert, the M-80 will pay for itself in glass savings.



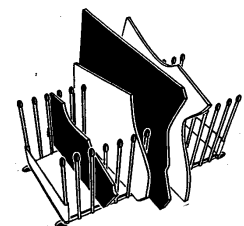
The **Thrifty Lite Kit (TLK1)** is needed to make the light box or tool box. As light box or tool box, the Thrifty Lite Kit requires the Morton Mini Surface. This kit comes ready to be finished. Stain or paint to match your work area. The Thrifty Lite Kit was designed to be a light box or a tool box... not both. The design of both tool or light box is such that you can convert from one to the other in just minutes. Carefully consider the features of the kit. Everyone has a little different situation and in a few minutes of planning now can head you in the direction of your special needs.

As a **Tool Box** the unit uses the mini surface as the cover and is intended to be a portable and storable work station. The unit is designed to hold most of the items needed in glass work and is easy to carry. It is a good choice for the person taking classes, someone who travels and anyone who must work in their living area. The toolbox, when sitting on a standard table, card table or desk, is a good glass working height. As a tool box, with a Mini Surface as the cover, this unit will give you a glass studio anywhere you happen to be. The **Tool Box** requires the **Thrifty Lite Kit (TLK1)**, the **Tool Box Kit (TBK2)** and the **Mini Surface (SS02)**.



As a **Light Box** the unit uses the Mini Surface as the working surface. The surface can be turned cell side up or smooth side up. If you were cutting or selecting glass you would turn the cells side up... for art work the smooth side up. Most people who work in stained glass need a light box. Most of the people who have a light box use it to select glass. The difference between fair and good work is more often glass selection than craftsmanship. The **Light Box** requires the **Thrifty Lite Kit (TLK1)**, the **Mini Surface (SS02)** a light fixture (designed for a G.E. "Bright Stik").

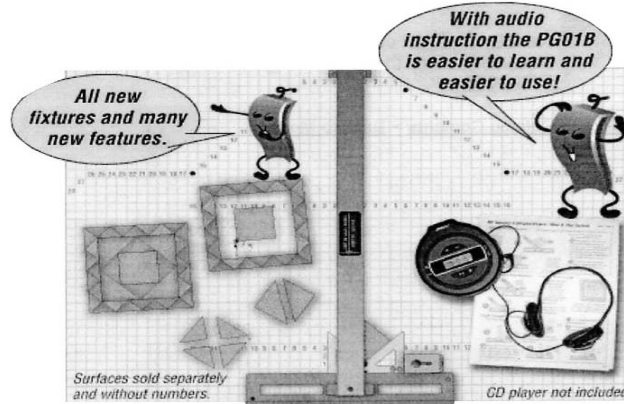
Use the **Glass Caddy (GC01)** near your work area to organize the glass you're using for your current project. As you cut your big pieces into several smaller pieces, use the Glass Caddy to hold all of your usable scrap. Holds up to 45 square feet of stained glass.



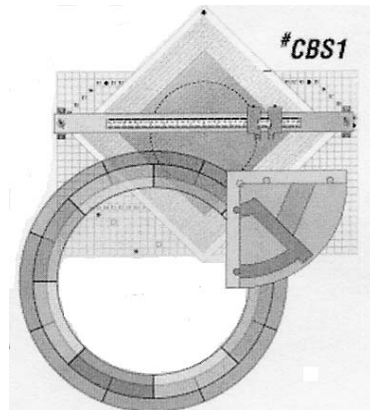
More products are available from Morton in the grinder accessory section and bracing section.

MORTON SYSTEM

The **Portable Glass Shop (PG01B)** is a new version of the Glass Shop. After 20 years of great service the PG01 has been retired. The markings, on your current Morton Surface, are easily modified to work with this new Glass Shop. The 78 minute audio CD and the Instruction manual will have you understanding and using the PG01B faster and easier than ever before. Most of you don't like reading directions and this new concept will make learning fun again. New features like a reversible Squaring Fence for regular and thin art glass, cool new fixtures like the fast angles, both metric and inch scales and audio support makes the PG01B a must have for art glass enthusiasts.



The **Circle & Border System (CBS1)** is the ultimate accessory for the Portablr Glass Shop. Putting a glass border around a glass circle uses a lot of glass and leaves you with hard to use scrap...the CBS1 changes how you do it. Complete with computer program to calculate all the sizes, and video instruction to show you how to use your system.



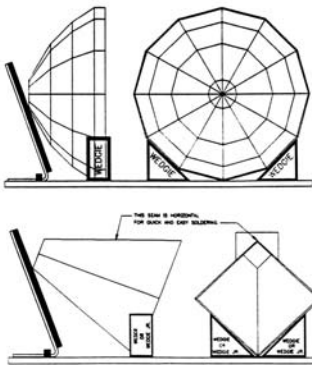
Catalog #	Description	Catalog #	Description
SS02	Mini Surface	PG01B	Portable Glass Shop
LS01	Maxi Surface	PG03	Studio Cutting Bar
SM03	Super Mini Surface w/15" Cutting Bar	PG02B	Fence Extension & Ruler
CC06	Cutter Caddy	SB01	Safety Break System
TCS1	Teeny Circle Guide	PG05	Assembly Tray
MTO1	Morton Twister	PG06B	Glass Stops
ZMO1	Clean Cut	SB80	Safety Break M-80
LB01	Layout Block System	TLK1	Thrifty Lite Kit
LB02	12 + 3-inch Layout Add-ons	TBK2	Tool Box Kit
LB17	17-inch Layout Add-On	GC01	Glass Caddy
LB23	23-inch Layout Add-Ons	CBS1	Circle & Border System
LB16	Push Pins (16) Add-Ons		

THE EMERALD RAINBOW

Lamp Wedgie

Catalog # WD-LW

The Lamp Wedgie™ is made of a heavy duty plastic for durability and a soft rubber face to grip and secure your project at all angles of production. Installation instructions are included.



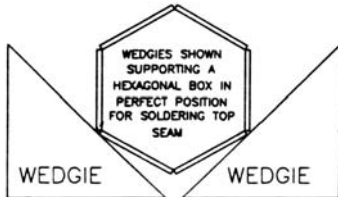
Wedgies Set of 2

Catalog # WD-2

Wedgies Jr Set of 3

Catalog # WD-JR

Great accompanying pieces to The Lamp Wedgie™ are The Wedgie Jr's™ and The Wedgies™ each made of soft rubber for a secure grip on your project. The Wedgie Jr's™ come in packages of 3 and The Wedgies™ come in a thicker layered set of 2. Instructions for use of both products is included in each package.



OCTAHEX

Catalog # WD-OC



Also new from "Great Beginnings", The Octahex and the Professional Boxer are two unique tools for making shades or bases. Each item includes instructions and tips on making all creations beautiful and symmetrical. Made of heavy duty heat resistant acrylic.

PROFESSIONAL BOXER

Catalog # WD-PB



BEETLE BITS CUTTING SYSTEM

BEETLE BITS CUTTING SYSTEM & FLYING BEETLE CUTTER

Catalog # CSG-BB

Catalog # CSG-FB

Aids in scoring angles and straight edges and increases productivity tremendously on production work. The compass dial allows you to find and set angles with ease. This cutting system plugs into the Waffle Grid worksurface. Also compatible with the Morton cutting board. The Flying Beetle glass cutter is designed to slide effortlessly up and down the cutting bar at a perfect 90 degrees to the glass giving a perfect score each time. The Flying Beetle is made from impact resistant polycarbonate and utilizes the Toyo TC-10 cutter head part #SC-1A.

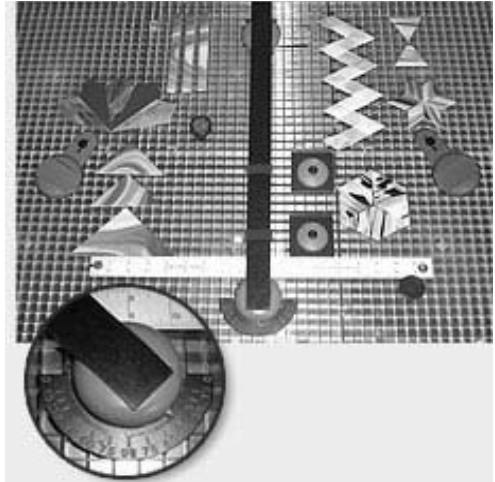
Includes:

- 1- Swivling bar rest with compass dial.
- 2- Adjustable angle bar rests
- 1- Stationary bar rests
- 2- Multi-directional glass stops (also sold separately)
- 1- 18" base ruler
- 1- 23" cutting bar
- 1- oil well

ADDITIONAL ACCESSORIES

Catalog # CSG-B35 35" cutting bar

Catalog # CSG-GS Glass Stops

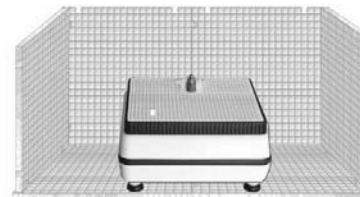


WAFFLE GRID SURFACE

Catalog # CSG-WG2 2-Pack

Catalog # CSG-WG6 6-Pack

This interconnecting grid allows the user to configure to the shape of their work table. Through unique design, you can configure around a corner, as a connecting backsplash or even randomly turn up individual grids to have smooth areas amid the grided areas.(6-pack shown assembled into a splash guard). Made of high impact polycarbonate, the surface of 1/2" pockets is rounded and smooth, to allow your glass to glide. Want to clean out debris from just one section just lift it out. no need to disturb your whole work surface. The Waffle Grid comes in a 6- pack and a 2-pack. The components are 11 1/4" x 11 1/4".

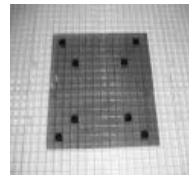


FRICITION BUTTONS & SPEED BALLS

Catalog # CSG-FRB 8-Pack

Catalog # CSG-SB 12-balls plus 2 ball positioners

Friction button work with Waffle Grids or Morton's cutting board to provide cushioning as well as friction so that your glass will stay in place while cutting, while the Speed Balls do just the opposite. They allow you to easily slide the glass accross the grid surface when using the Beetle Bits cutting system



CIRCLE PRO 12

Catalog # CSG-CP12

Cutting perfect circles is no problem with the Circle Pro 12. Make circles from 3/8" up to 12" with precision and ease. Smooth operation and a Toyo TC-10 cutting head make this the best cutter for small to medium size circle cutting. Clean up is a snap with the included Waffle Grid base. Folds up for easy storage.

