A "STONE SET TECHNOLOGY" PRODUCT

US PATENT NUMBER 6668584

UNILOCK

(THE ULTIMATE JEWELRY ELEMENT OF PERSONALIZATION)

UNILOCK "U" FLUSH OR ABOVE PEARL JEWELRY APPLICATION (10)

UNILOCK

(The Ultimate Jewelry Element of Personalization)

The "Unilock" as a gem carrier is a barrel shaped tube setting with pre-set gem stones, cabochons or diamonds; designed to be used without the use of solder or adhesives. The Unilock is applied over or into the jewelry at the end of the production cycle using an easy-snap® process with the benefit of delivering urgent last minute orders quickly. The Unilock is utilized by the retailer at their premises to <u>personalize on the spot</u>/over the counter sales of "Mother's Jewelry", names or initials, birthstone programs and gifts.

The Unilock setting is produced with a regular barrel, short barrel, straight tube or long barrel and is available in Sterling Silver, 10kt, 14kt, 18kt Gold. This combination of barrel and tube shapes gives the setting unlimited possibilities when installed on various products.

REGULAR	SHORT	STRAIGHT	LONG
" <u>U</u> "	" <u>UX</u> "	" <u>UZ</u> "	" <u>UY</u> "

• <u>Metals</u>

GOLD	STAINLESS STEEL	CERAMIC
STERLING SILVER	TITANIUM	TUNGSTEN

• <u>Jewelry</u>

CASTING	TURNED	HOLLOW
STAMPED	ELECTROFORM	РНОТОЕТСН

The advantage of the Unilock is that it simplifies the manufacturing process of the jewelry. It reduces overall cost, creates more flexible inventory-manufacturers can use their own stones; eliminates the need for a skilled jeweler and most importantly: utilizes unparalleled application technology never before available to the jewelry industry. Every gem set into the Unilock has all the desirable features that can be expected from the best stone setters in the industry. The precise positioning of the gem, the minimum amount of metal over the gem, together with the firmness of the stone in its seat; all finished with a mirror polish giving a consistent product appearance and quality. The Unilock is the ultimate, most advanced application system, to set gems into jewelry and gifts today. This application creates new marketing and sales opportunities for the entire industry.

UNILOCK APPLICATIONS:

1) Unilock "U	" Flush into	Gold Jewelry
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2) Unilock "U" Flush into Cast Gold Jewelry

3) Unilock "U" Flush into Sterling Silver Jewelry

4) Unilock "U" Flush into Cast Sterling Silver Jewelry

5) Unilock "U" Flush into Stainless Steel Jewelry

6) Unilock "U" Flush into Titanium Jewelry

7) Unilock "U" Flush into Tungsten Jewelry

8) Unilock "U" Flush into Ceramic Jewelry

9) Unilock "U" Flush into Enamel Jewelry

10) Unilock "U" Flush or Above Pearl Jewelry

11) Unilock "U" Above Gold Jewelry

12) Unilock "U" Above Cast Gold Jewelry

13) Unilock "U" Above Sterling Silver Jewelry

14) Unilock "U" Above Cast Sterling Silver Jewelry

15) Unilock "U" Above Stainless Steel Jewelry

16) Unilock "U" Above Titanium Jewelry

17) Unilock "UZ" Above Thin Gold Stamping

18) Unilock "UX" Above Sterling Silver Tubing

19) Unilock "UX" Above Gold Filled Tubing

20) Unilock "UX" Above Hollow Gold

21) Unilock "UX" Above Sterling Silver Electroform

22) Unilock "UZ" Above Photo Etchings in Gold

23) Unilock "U" Flush or "UX" Above Soft & Flexible Materials

24) Unilock "U" Flush or Above Wood, Plastic, Composites etc.

25) Unilock "U" Flush or Above Aluminum Products

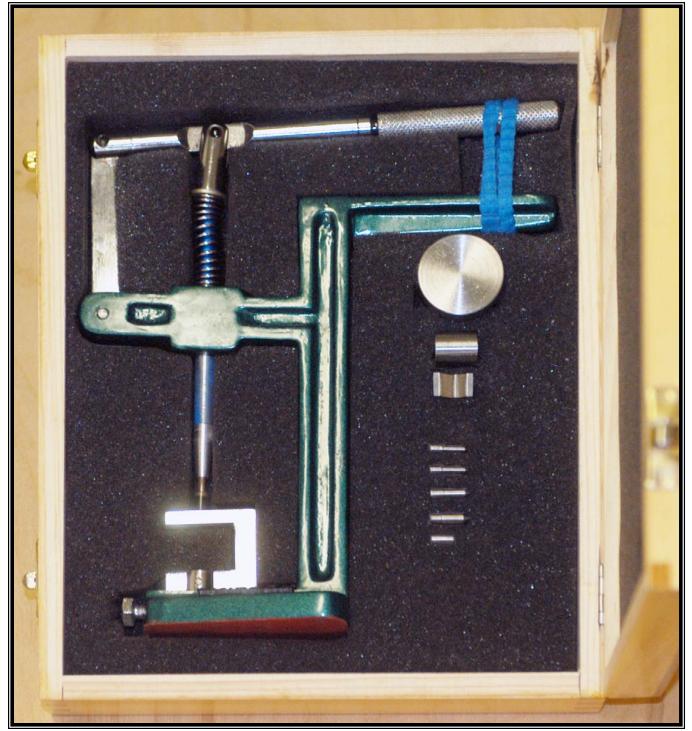
FOR ALL OTHER APPLICATIONS NOT LISTED ABOVE PLEASE SEND US A SAMPLE TOGETHER WITH YOUR REQUIREMENTS AND OUR R&D DEPT WILL PROVIDE A SET OF INSTRUCTIONS THAT WILL SUIT YOUR NEEDS.

UNILOCK REGULAR TUBE APPLICATION (10)



UNILOCK	REGULAR BARREL	TUBE	BEZEL		
MODEL	TUBE DIAMETER	<u>HEIGHT</u>	DIAMETER	<u>HEIGHT</u>	
U160	1.15mm	0.75mm	1.60mm	0.45mm	
U190	1.50mm	0.85mm	1.90mm	0.60mm	
U240	2.00mm	0.95mm	2.40mm	0.65mm	
U290	2.30mm	1.10mm	2.90mm	0.75mm	
U350	3.00mm	1.20mm	3.50mm	0.90mm	
U420	3.30mm	1.40mm	4.20mm	1.10mm	
U530	4.00mm	1.50mm	5.30mm	1.25mm	
U630	5.10mm	1.55mm	6.30mm	1.60mm	
U750	6.20mm	1.60mm	7.50mm	1.80mm	

THE <u>UNILOCK PRESS</u> w/IMPACT TOOL, UNIVERSAL JIG BASE w/JIG SUPPORTS IS UTILIZED BY THE MANUFACTURER TO SIMPLIFY THE ASSEMBLY OF THE UNILOCK AT THE END OF THE PRODUCTION CYCLE.



THE <u>UNILOCK PRESS</u> w/IMPACT TOOL, UNIVERSAL JIG BASE w/JIG SUPPORTS IS UTILIZED BY THE RETAILER AT THEIR PREMISES FOR THE PERSONALIZATION OF ON THE SPOT/OVER THE COUNTER SALES OF JEWELRY AND GIFTS.

UNILOCK FLUSH OR ABOVE THE PEARL APPLICATION (10)

For the Unilock to sit flush inside the pearl a two step hole has to be created. The use of a two step drill (USD) is recommended to make the two step hole. The two step drill can penetrate directly into the pearl as per the instructions on page 7.

For the Unilock to sit above the pearl a hole has to be created, see instructions on page 8.

For the easy snap of the Unilock flush into the pearl see Page 9.

For the easy snap of the Unilock sitting above the pearl see Page 9.



CUSTOMER GEM-STONES USABLE IN UNILOCK

MODEL	STONE RANGE	OPTIMAL SIZES
U160	1.00mm – 1.30mm	1.20mm – 1.30mm
U190	1.40mm – 1.65mm	1.45mm – 1.55mm
U240	1.70mm – 2.10mm	1.90mm – 2.00mm
U290	2.15mm – 2.55mm	2.40mm - 2.50mm
U350	2.60mm – 3.05mm	2.95mm – 3.05mm
U420	3.10mm – 3.75mm	3.45mm – 3.65mm
U530	3.80mm – 4.70mm	4.00 mm - 4.25 mm
U630	4.75mm – 5.80mm	4.90mm - 5.40mm
U750	5.90mm – 6.80mm	6.00mm – 6.50mm

The "optimal sizes" are ideal for the Unilock, both for the cosmetic appearance as well as the minimum amount of metal over the gem.

UNILOCK FLUSH INTO THE PEARL APPLICATION (10)

Before drilling the pearl it is advisable to protect the surface where the hole will be created with "paper correction liquid" in order to drill a hole with a contour clear of imperfections. We recommend to hold the pearl firmly protected inside a urethane tube and then to create the hole using precise and centered drilling equipment.

TO DRILL DIRECTLY INTO THE PEARL USING THE UNILOCK STEP DRILL (USD) AS PER TABLE:

FOR <u>UNILOCK</u> USE <u>MODEL</u> AT <u>RPM</u> PENETRATION OF THE <u>LARGE Ø DEPTH</u>

U160	USD160	3000		0.35mm
U190	USD190	3000		0.45mm
U240	USD240	3000		0.55mm
U290	USD290	2000	1	0.65mm
U350	USD350	2000		0.75mm
U420	USD420	2000		0.90mm
U530	USD530	1000		1.05mm
U630	USD630	1000		1.25mm
U750	USD75 0	1000	All Har	1.55mm

PHYSICAL DIMENSIONS OF THE UNILOCK STEP DRILLS (USD):

MODEL	SMALL DIAMETER	LARGE DIAMETER
USD160	1.13mm	1.65mm
USD190	1.47mm	1.95mm
USD240	1.95mm	2.45mm
USD290	2.25mm	3.55mm
USD420	3.25mm	2.95mm
USD350	2.95mm	4.25mm
USD530	3.95mm	5.35mm
USD630	5.05mm	6.35mm
USD750	6.15mm	7.55mm

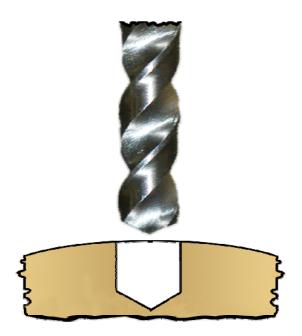
Once the hole has been made the Unilock is ready to be easily snapped into the jewelry

See Page 9

<u>UNILOCK ABOVE THE PEARL</u> APPLICATION (10)

For the Unilock to sit above the pearl drill directly into the pearl using regular drill as per table:

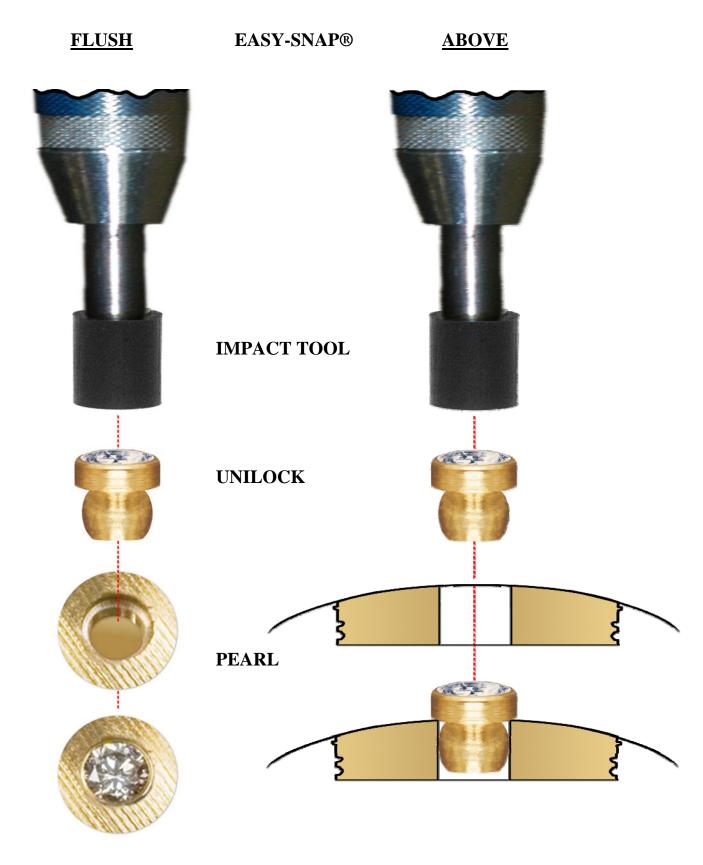
FOR MODEL	USE DRILL DIAMETER	AT <u>RPM</u> SPEED
U160	1.12mm	3000
U190	1.45mm	3000
U240	1.95mm	3000
U290	2.25mm	2000
U350	2.95mm	2000
U420	3.25mm	2000
U530	3.95mm	1000
U630	5.05mm	1000
U750	6.15mm	1000



Once the hole has been made the unilock is ready to be easily snapped into the jewelry

See Page 9

UNILOCK FLUSH OR ABOVE THE PEARL APPLICATION (10)



IMPACT TOOL

(MODIFIED AUTOMATIC CENTER PUNCH)



How to Adjust the Impact Tool Pressure:

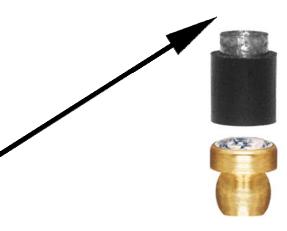
Calibrate the snap by turning the top screw

- Clockwise = Stronger Snap
- Counter-Clockwise = Weaker Snap

How to replace the tip:

1) Just pull off the tip from the shaft of the impact tool.

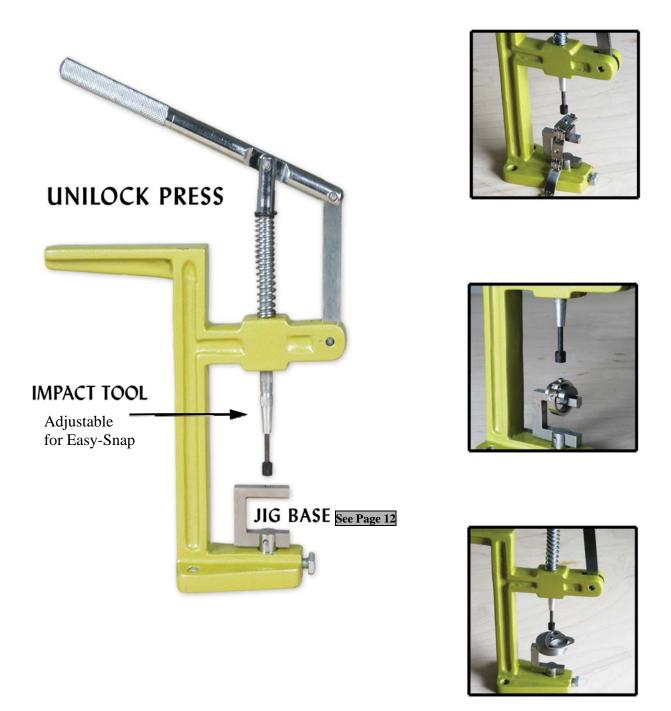
- 2) Then push in the new metal tip that you will be using.
- (Replacement tips are available from Stone Set Technologies)
- 3) For a tighter fit, a small amount of "**Rodico**" can be used.



Impact Urethane Tip (IUT)

TO ORDER PARTS, SEE PAGE 16

UNILOCK PRESS WITH IMPACT TOOL AND UNIVERSAL JIG BASE

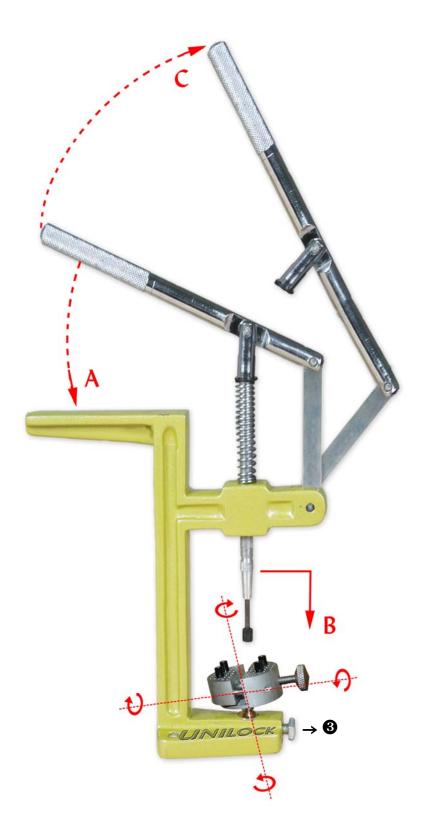


The Unilock Press can be screwed half-way out from the edge of the bench in order to accommodate bangles and other large rounded forms that can rest with their top part over the jig base and the lower part hanging under the press. Jig base supports are needed for this operation. See next page for a list of jig base supports.

UNIVERSAL JIG BASE WITH SUPPORTS

The Unilock Press with	2.3mm	The <u>Centrino</u> series of four	
the Universal Jig Base		inserters is used for irregular	
and the different	2.8mm	forms that are supported directly	
and the uniterent	0	from the bottom (back side of the	
supports are designed to	3.7mm	jewelry item.) The <u>Centrino</u>	
accommodate many	3.7mm	penetrates thru the irregular	
	•	form until reaching the center of	
different jewelry shapes	6.00mm	the hole where the Unilock will	
with similar ties to the		be set and snapped.	
broad spectrum of	Dead	The Concave support is used	
-		for round or semi-round forms.	
geometrical forms: Flat,			
Round, Cylindrical,		The half round support is used	
Compose Compose	1 L	for rings and other curved	
Concave, Converse		forms.	
and Asymmetrical.		The flat disc support is used for	
This system can		flat forms, stampings, charms,	
	2	link bracelets etc.	
adequately cover 80%		The reference pin is inserted into	
of the entire		the top part of the Jig Base as a receiver for the three large	
spectrum of shapes.		supports.	
spectrum of snapes.			
For any different jewelry		The Jig Base is U-shaped to	
shape not covered,		accommodate the bottom of a	
SST will develop the right		ring shank, bracelet or any	
bor win develop the right		large tube earring.	
support for the customer.			

UNILOCK PRESS FOR EASY-SNAP ® WITH INCLINABLE HOLDER



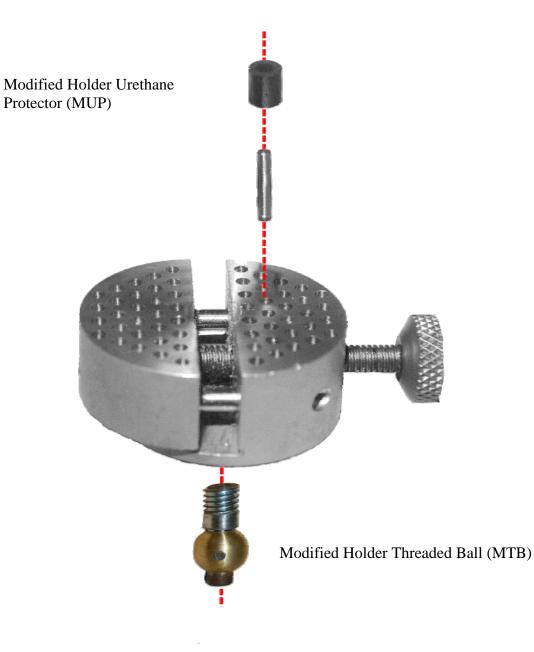
How to remove the Impact Tool:

- **A** Press the Lever all the way down.
- **B** Hold the bottom shaft of the Impact Tool.
- C Pull the lever handle all the way up and away.
- Now you can Pull the Impact Tool up and out from the press.

How to insert Inclinable Holder:

- 1) Insert Ball into hole in base of press all the way down.
- 2) Adjust Inclination.
- 3) Secure by tightening lock screw clockwise.

INCLINABLE MODIFIED HOLDER FOR UNILOCK PRESS



TO ORDER PARTS, SEE PAGE 16

UNILOCK ORDER SHEET

<u>Month</u>	Birthstone	Gem Size	Unilock Model	Type of Metal	Application	Tube Type	Quantity
January							
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

Other Gems and Diamonds	Gem Size	Unilock Model	Type of Metal	Application	Tube Type	Quantity

ORDER DELIVERY TIME

Unilock samples are delivered within one week's time as per stock availability. Orders of Unilock in Sterling Silver are delivered within 3-4 weeks after customer stones are received.

Orders of Unilock **U160**, **U190**, **U240**, **U290 & U350** made in 14kt yellow gold are delivered within 3-4 weeks after customer stones are received.

Orders of Unilock **U160**, **U190**, **U240**, **U290 & U350** of different gold karatages and colors are delivered within 6-8 weeks.

Orders of Unilock **U420**, **U530**, **U630** & **U750** of any karatage and color are subject to minimum quantities and are delivered within 6-8 weeks.

UNILOCK PRODUCTION SUPPORT APPLICATION (10)

AVAILABLE FROM STONE SET TECHNOLOGIES

- The Unilock Press and Impact Tool with Universal Jig Base and jig supports Pages 5, 11, 12 - are provided to Unilock users at cost. This service is provided only to our customers.
- 2) Unilock Step Drill (two step carbide drill) (USD) page 7
- 3) *Impact Tool* page 10
- 4) Impact Tool Urethane tip replacement (IUT) page 10
- 5) Inclinable Modified Holder Parts page 14
 - a) Holder Urethane Protector (MUP)
 - b) Hardened Holder Threaded Ball (MTB)

AVAILABLE DIRECTLY FROM INDIVIDUAL VENDORS

 6) Inclinable Modified Holder (universal work holder w/pegs) – page 14: Rio Grande #113-089 www.riogrande.com 1.800.545.6566

TEL: 954.565.4979

TOLL FREE: 888.201.3586

FAX: 954.565.4931

MAIL:

DELIVERIES:

P.O. BOX 48020 FT. LAUDERDALE, FL 33348

3532 N. OCEAN BLVD. 2ND FLOOR FT. LAUDERDALE, FL 33308

WWW.UNILOCK.US