A "STONE SET TECHNOLOGY" PRODUCT

US PATENT NUMBER 6668584

# UNILOCK

(THE ULTIMATE JEWELRY ELEMENT OF PERSONALIZATION)

UNILOCK "U" FLUSH INTO CAST STERLING SILVER JEWELRY APPLICATION (4)

### **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	

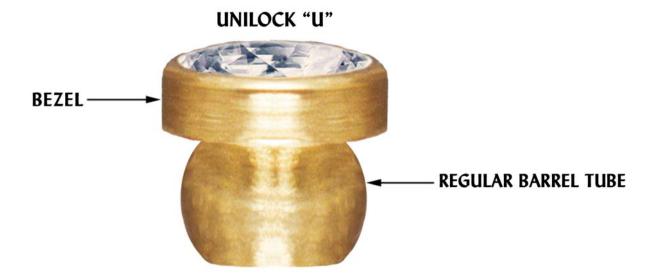
The advantage of the Unilock is that it simplifies the manufacturing process of the jewelry. It reduces overall cost, creates more flexible inventory-manufacturers can use their own stones; eliminates the need for a skilled jeweler and most importantly: utilizes unparalleled application technology never 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 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

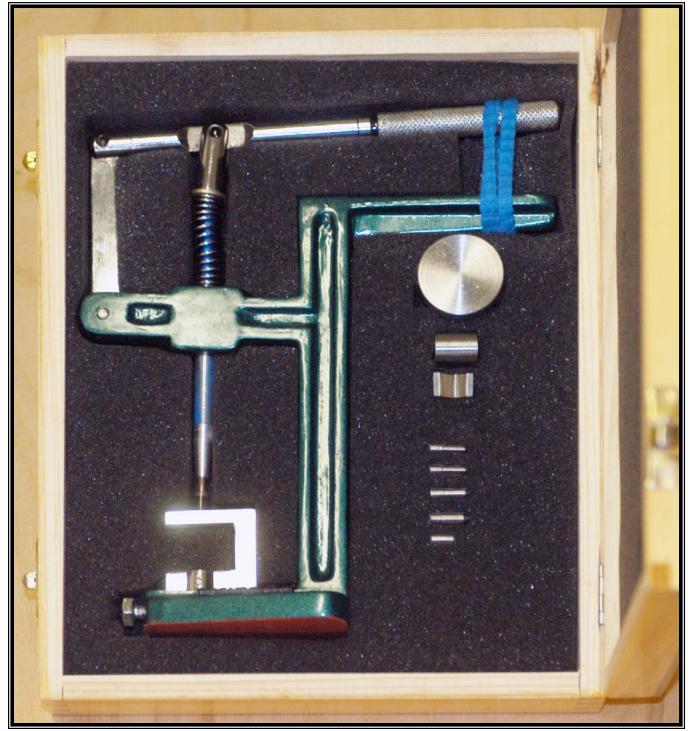
PROVIDE A SET OF INSTRUCTIONS THAT WILL SUIT YOUR NEEDS.

# **UNILOCK REGULAR TUBE** APPLICATION (4)



UNILOCK	<b>REGULAR BARREL</b>	TUBE	BEZE	<b>L</b>
<b>MODEL</b>	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 INTO CAST STERLING SILVER JEWELRY APPLICATION (4)

For the Unilock to sit flush inside cast jewelry first a non precise guiding hole needs to be created by the caster as per table specifications on page 7. The cast hole should then be enlarged with a two step drill. If precise and centered drilling equipment is used it will be possible to control the hole depth. If the two step hole is performed at the bench by a jeweler using drilling equipment without depth control we suggest the use of a spacer.

- Use of *Precise and Centered Drilling Equipment* refer to instructions Page 8
- Use of *Flexible Shaft Drilling Equipment* refer to instructions Page 8



#### **CUSTOMER GEM-STONES USABLE IN UNILOCK**

MODEL	STONE RANGE	<b>OPTIMAL SIZES</b>
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 CAST STERLING SILVER JEWELRY APPLICATION (4)

# THE CASTER SHOULD CAST A NON-PRECISE HOLE AS A GUIDE FOR THE SUBSEQUENT DRILLING AS PER TABLE:

<b>MODEL</b>	SUGGESTED NON-PRECISE HOLE DIAMETER
U160	1.00mm
U190	1.20mm
U240	1.60mm
U290	2.00mm
U350	2.50mm
U420	3.00mm
U530	3.50mm
U630	4.00mm
U750	5.00mm

## UNILOCK FLUSH INTO CAST STERLING SILVER JEWELRY **APPLICATION (4)**

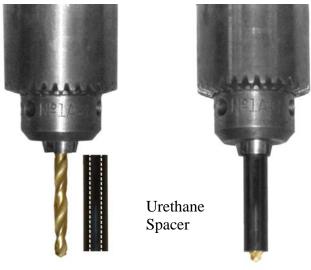
## TO DRILL DIRECTLY INTO THE JEWELRY USING THE UNILOCK STEP DRILL (USD) AS PER TABLE:

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	0.65mm
U350	USD350	2000	0.75mm
U420	USD420	2000	0.90mm
U530	USD530	1000	1.05mm
U630	USD630	1000	1.25mm
U750	USD750	1000	1.55mm

#### **USING FLEXIBLE SHAFT DRILLING EQUIPMENT:**

To penetrate to the right depth, a tube of urethane can be used as a spacer between the chuck and the jewelry leaving exposed only the desired portion of the drill.



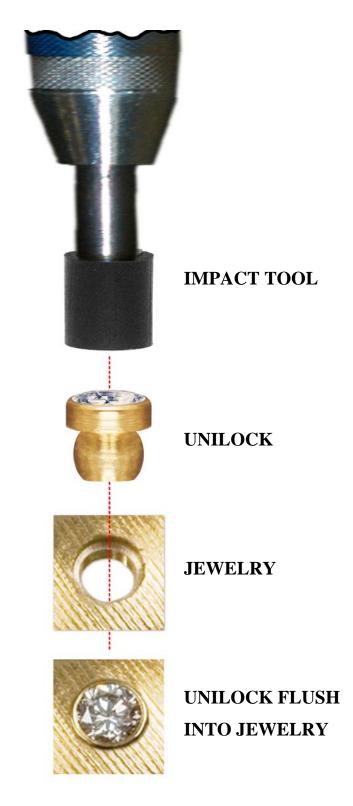
Once the hole has been made the Unilock is ready to be easily snapped into the jewelry See Page 9

TO ORDER PARTS, SEE PAGE 16



USD

## UNILOCK FLUSH INTO CAST STERLING SILVER JEWELRY APPLICATION (4) EASY-SNAP®



## **IMPACT TOOL**

#### (MODIFIED AUTOMATIC CENTER PUNCH)



#### How to Adjust the Impact Tool Pressure:

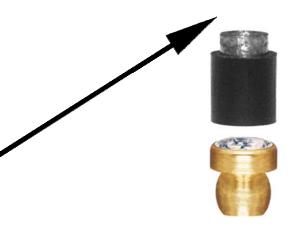
Calibrate the snap by turning the top screw

- 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.

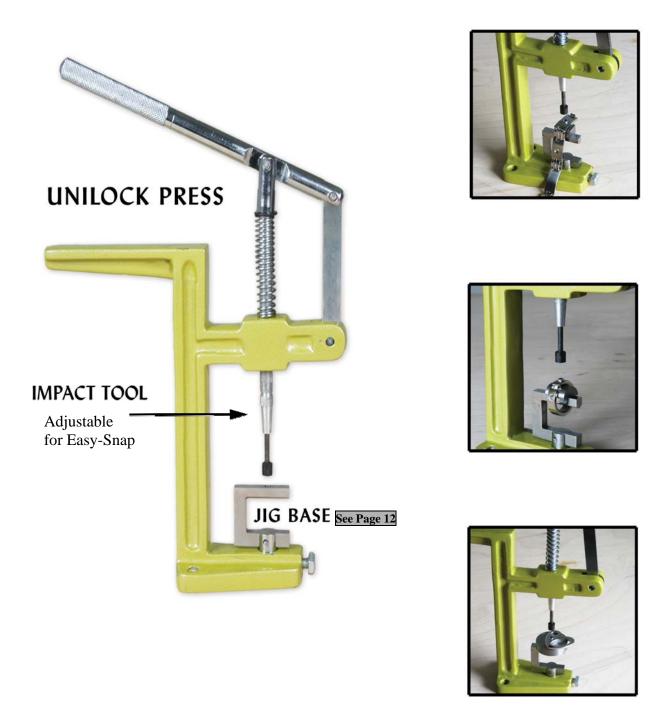
- 2) Then push in the new metal tip that you will be using.
- (Replacement tips are available from Stone Set Technologies)
- 3) For a tighter fit, a small amount of "**Rodico**" can be used.



Impact Urethane Tip (IUT)

TO ORDER PARTS, SEE PAGE 16

## UNILOCK PRESS WITH IMPACT TOOL AND UNIVERSAL JIG BASE

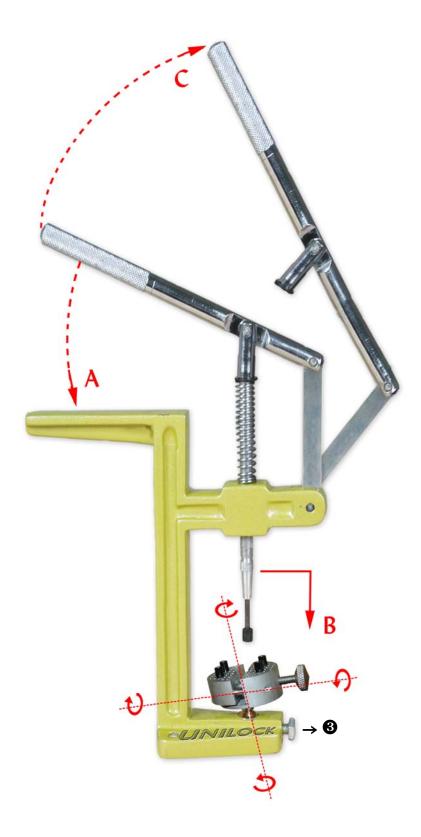


The Unilock Press can be screwed half-way out from the edge of the bench in order to accommodate bangles and other large rounded forms that can rest with their top part over the jig base and the lower part hanging under the press. Jig base supports are needed for this operation. See next page for a list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

## **UNIVERSAL JIG BASE WITH SUPPORTS**

	1			
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 unierent	0	from the bottom (back side of the		
supports are designed to	<b>3.7mm</b>	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		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		
SST will develop the right		large tube earring.		
support for the customer.		go		

## **UNILOCK PRESS FOR EASY-SNAP ® WITH INCLINABLE HOLDER**



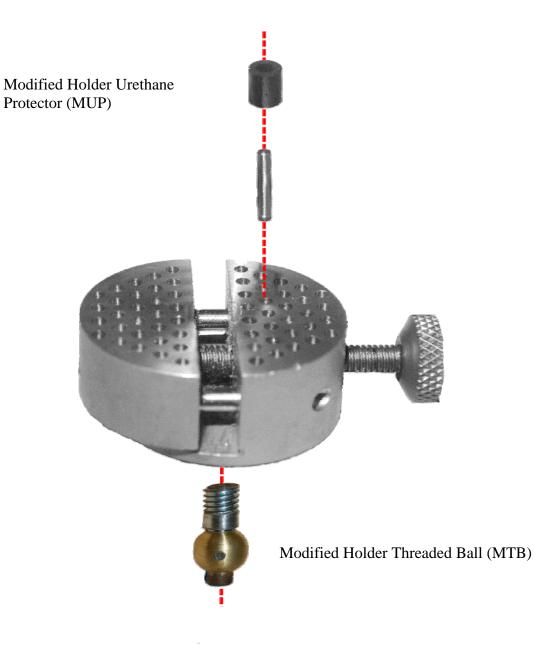
#### How to remove the Impact Tool:

- **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 (4)

#### **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 8
- 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. 2<sup>ND</sup> FLOOR FT. LAUDERDALE, FL 33308

WWW.UNILOCK.US