# MILESCRAFT ®
## Always the Better Idea.
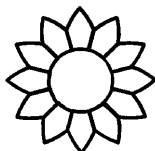
# TurnLock ™
# SpiroCrafter ™



## SpiroCrafter™ Designs Manual

# MILESCRAFT ®

# TEMPLATE #1
# *Designs*

*All designs made with Template #1.*

### Design #1
*Design Size: 1 3/4" (70 mm)*
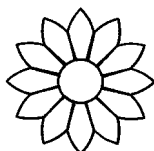*Template Window: 1*
*Portion of Window Cut: All*
*Rotation: 2*
*Bushing: 17*
*Bit: (For Router)*
 *Straight, Round Nose,*
 *V-Groove (lettering),*
 *Any Decorative Plunge*
*Bit: (For Rotary Tool)*
 *Straight, Round Nose,*
 *V-Groove (lettering)*

### Design #2
*Design Size: 2 9/16" (100 mm)*
*Template Window: 2*
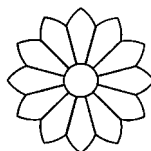*Portion of Window Cut: All*
*Rotation: 2*
*Bushing: 17*
*Bit: (For Router)*
 *Straight, Round Nose,*
 *V-Groove (lettering),*
 *Any Decorative Plunge*
*Bit: (For Rotary Tool)*
 *Straight, Round Nose,*
 *V-Groove (lettering)*

### Design #3
*Design Size: 3 5/16" (130 mm)*
*Template Window: 3*
*Portion of Window Cut: All*
*Rotation: 2*
*Bushing: 17*
*Bit: (For Router)*
 *Straight, Round Nose,*
 *V-Groove (lettering),*
 *Any Decorative Plunge*
*Bit: (For Rotary Tool)*
 *Straight, Round Nose,*
 *V-Groove (lettering),*

### Design #4 (Composed of an overlay of Designs 1, 2 and 3)
*Design Size: 3 5/16" (130 mm)*

### Design #5
*Design Size: Choice of 1 3/4"*
 *(70 mm), 2 9/16" (100 mm)*
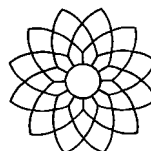 *or 3 5/16" (130 mm)*
*Template Window: 1 & 2 or 3*
*Portion of Window Cut: All*
*Rotation: 1*
*Bushing: 17*
*Bit: (For Router) Straight (3 –4*
 *mm), V-Groove (lettering),*
 *Decorative Plunge*
*Bit: (For Rotary Tool) Straight,*
 *V-Groove (lettering),*

### Design #6
*Design Size: 3 5/16" (130 mm)*
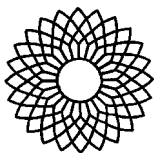*Template Window: 1 & 2 & 3*
*Portion of Window Cut:*
 *(First Pass): 1- All*
 *(Second Pass): 2 - Template*
 *positioned with Tip at 12 o'clock –Tip*
 *(Third Pass): 3 - Template positioned*
 *so curve of Window 3 intersects*
 *point of Window 2- Tip*
*Rotation: 2 for all*
*Bushing: 17*
*Bit: (For Router) Straight, Round Nose,*
 *V-Groove (lettering), Any Decorative*
 *Plunge*
*Bit: (For Rotary Tool) Straight, Round*
 *Nose, V-Groove (lettering),*

**Design #7**
Design Size: 2 9/16" (100 mm)
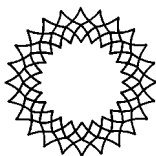Template Window: 1 & 2
Portion of Window Cut:
    All on 1, Tip on 2
Rotation: 1
Bushing: 17
Bit: (For Router) Straight (3-4mm),
    V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    V-Groove (lettering),

**Design #8**
Design Size: 3 5/16" (130 mm)
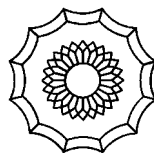Template Window: 6
Portion of Window Cut: All
Rotation: 1
Bushing: 17
Bit: (For Router) Straight (3-4mm),
    V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    V-Groove (lettering),

**Design #9**
Design Size: 3 5/16" (130 mm)
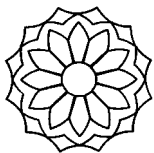Template Window: 1 & 4
Portion of Window Cut: All on both
Rotation: 1 on 1, 2 on 4
Bushing: 17
Bit: (For Router) Straight (3-4mm),
    V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    V-Groove (lettering),

**Design #10**
Design Size: 3 5/16" (130 mm)
Template Window: 2 & 5
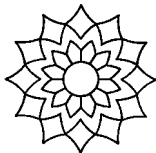Portion of Window Cut:
    (First Pass): 2 - All
    (Second Pass): 5 – Template
    positioned so Window 5 is
    aligned between two side-by-
    side Window 2 designs- All
Rotation: 2 on both
Bushing: 17
Bit: (For Router) Straight, Round
    Nose, V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    Round Nose, V-Groove (lettering),

**Design #11**
    **(A Surround for Design #1)**
Design Size: 3 5/16" (130 mm)
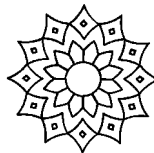Template Window: 6
Portion of Window Cut: All
Rotation: 2
Bushing: 17
Bit: (For Router) Straight, Round
    Nose, V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    Round Nose, V-Groove (lettering),

**Design #11 (Alternate)**
Design Size: 3 5/16" (130 mm)
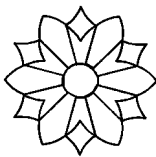Template Window: 6
Portion of Window Cut: All
Rotation: 2
Bushing: 17
Bit: (For Router) Straight, Round
    Nose, V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    Round Nose, V-Groove (lettering),

**Design #12**
Design Size:  3 $^5/_{16}$" (130 mm)
Template Window:  3 & 6
Portion of Window Cut:
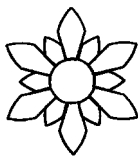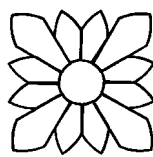    (First Pass): 3 - All
    (Second Pass): 6 – Template
    positioned so Window 6 is
    between two Window 3
    designs- All
Rotation:  4 on both
Bushing:  17
Bit: (For Router) Straight, Round
    Nose, V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    Round Nose, V-Groove (lettering),

**Design #13**
Design Size:  Window  1: 2 $^9/_{16}$"
    (100 mm); Window 2: 3 $^5/_{16}$"
    (130 mm)
Template Window:  1 & 2
Portion of Window Cut:
    (First Pass): 1 - All
    (Second Pass): 2 – Template
    positioned so Window 2 is
    between two Window 1
    designs- All
Rotation:  4 on both
Bushing:  17
Bit: (For Router) Straight, Round
    Nose, V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
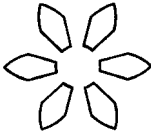    Round Nose, V-Groove (lettering),

**Design #14**
Design Size:  Window 2: $^9/_{16}$"
    (100 mm) and Window 3:
    3 $^5/_{16}$" (130 mm)
Template Window:  3 & 2
Portion of Window Cut:
    (First Pass): 3 - All
    (Second Pass): 2 – Template
    positioned so 2 Window 2
    designs are between one
    Window 1 design- All
Rotation:  6 on 3, 2 on 2
Bushing  17
Bit: (For Router) Straight, Round
    Nose, V-Groove (lettering),
    Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
    Round Nose, V-Groove (lettering),

# <u>NOTES</u>

# TEMPLATE #1
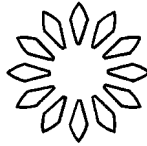# *Lacework*

*All designs made with Template #1.*

### Lacework #1
*Design Size: 1 3/4" (70mm),*
*   2 9/16" (100 mm) and*
*   3 5/16" (130 mm)*
*Template Window: 1 & 2 or 3*
*Portion of Window Cut: All*
*Rotation: 4*
*Bushing: 17*
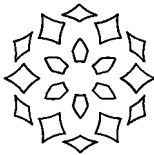*Bit: Straight (3-4mm)*
*Bit: (For Rotary Tool) Straight*

### Lacework #2
*Design Size: 1 1/2" (60mm),*
*   2 5/16" (90 mm) and*
*   3" (120 mm)*
*Template Window: 1 & 2 or 3*
*Portion of Window Cut: All*
*Rotation: 2*
*Bushing: 24*
*Bit: (For Router) Straight (3-4mm)*
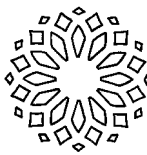*Bit: (For Rotary Tool) Straight*

### Lacework #3
*Design Size: 3 5/16" (130 mm)*
*Template Window: 2 & 6*
*Portion of Window Cut:*
*   (First Pass): 2 - All*
*   (Second Pass): 6 – Template*
*   positioned so Window 6 design*
*   is between two Window 2*
*   designs- All*
*Rotation: 4 on both*
*Bushing: 17*
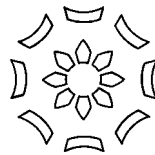*Bit: (For Router) Straight (3-4mm)*
*Bit: (For Rotary Tool) Straight*

### Lacework #4
*Design Size: 3 5/16" (130 mm)*
*Template Window: 1, 5 & 6*
*Portion of Window Cut:*
*   (First Pass): 1 - All*
*   (Second Pass): 6 – Template*
*   positioned so Window 6*
*   design is between two*
*   Window 1 designs- All*
*   (Third Pass): 5 – Template*
*   positioned so Window 5*
*   design is between two*
*   Window 6 designs- All*
*Rotation: 4 on all*
*Bushing: 17*
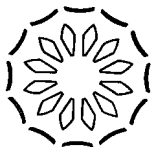*Bit: (For Router) Straight (3-4mm)*
*Bit: (For Rotary Tool) Straight*

### Lacework #5
*Design Size: 3" (120 mm)*
*Template Window: 2 & 6 & 5*
*Portion of Window Cut:*
*   (First Pass): 2 - All*
*   (Second Pass): 6 – Template*
*   positioned so Window 6*
*   design is between two*
*   Window 2 designs- All*
*   (Third Pass): 5 – Template*
*   positioned so Window 5*
*   design is between two*
*   Window 6 designs- All*
*Rotation: 2 on all*
*Bushing: 24*
*Bit: (For Router) Straight (3-4mm)*
*Bit: (For Rotary Tool) Straight*

### Lacework #6
*Design Size: 3 5/16" (130 mm)*
*Template Window: 1 & 4*
*Portion of Window Cut:*
*   (First Pass): 1 - All*
*   (Second Pass): 4 – Template*
*   positioned so Window 4*
*   design is centered above*
*   Window 1 design- All*
*Rotation: 3 on both*
*Bushing: 17*
*Bit: (For Router) Straight (3 mm)*
*Bit: (For Rotary Tool) Straight*

**Lacework #7**
Design Size: 3" (120 mm)
Template Window: 2 & 4
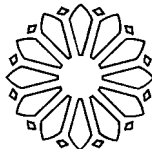Portion of Window Cut:
   (First Pass): 2 - All
   (Second Pass): 4 – Template
   positioned so Window 4 design
   is between two Window 2
   designs- All
Rotation: 2 on both
Bushing: 24
Bit: (For Router) Straight (3-4mm)
Bit: (For Rotary Tool) Straight



**Lacework #8**
Design Size: 3" (120 mm)
Template Window: 3 & 5
Portion of Window Cut:
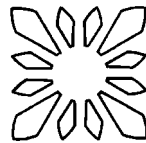   (First Pass): 3 - All
   (Second Pass): 5 – Template
   positioned so Window 5 design
   is between two Window 3
   designs- All
Rotation: 2 on both
Bushing: 24
Bit: (For Router) Straight (3-4mm)
Bit: (For Rotary Tool) Straight



**Lacework #9**
Design Size: 2" (80 mm) or
   2 $^5/_{16}$" (90 mm)
Template Window: 3 & 2
Portion of Window Cut:
   (First Pass): 3 - All
   (Second Pass): 2 – Template
   positioned so 2 Window 2
   designa are between two
   Window 3 designs- All
Rotation: 6 on 3, 2 on 2
Bushing: 24
Bit: (For Router) Straight (3-4mm)
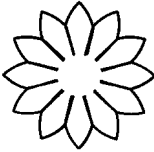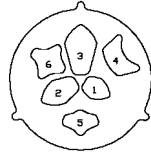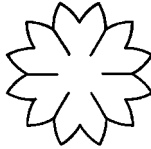Bit: (For Rotary Tool) Straight

# <u>NOTES</u>

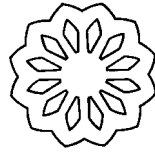# TEMPLATE #1
# *Cutouts*

*All designs made with Template #1.*





**Cutout #1**
*Design Size: Choice of*
*1 3/4" (70 mm),*
*2 9/16" (100 mm) or*
*3 5/16" (130 mm)*
*Template Window: 1 & 2 or 3*
*Portion of Window Cut: All*
*Rotation: 2*
*Bushing: 17*
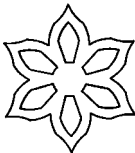*Bit: (For Router) Straight (3 mm)*
*Bit: (For Rotary Tool) Straight*

**Cutout #2**
*Design Size: Choice of 1 3/4"*
*(70 mm), 2 9/16" (100 mm)*
*or 3 5/16" (130 mm)*
*Template Window: 1, 2 or 3*
*Portion of Window Cut:*
    *(First Pass): 1, 2 or 3 - Right,*
    *Tip*
    *(Second Pass): 1, 2 or 3 –*
    *Template positioned one*
    *notch further right on base*
    *plate than at start of first*
    *pass - Left and Tip*
*Rotation: 4 on both*
*Bushing: 17*
*Bit: (For Router) Straight (3 mm)*
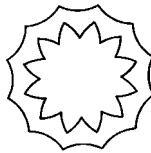*Bit: (For Rotary Tool) Straight*

**Cutout #3**
*Design Size: 2 7/8" (115 mm)*
*Template Window: 2 & 5*
*Portion of Window Cut:*
    *(First Pass): 2 - All*
    *(Second Pass): 5 – Template*
    *positioned so center of*
    *Window 5 is above point on*
    *Window 2) - Bottom*
*Rotation: 2 on both*
*Bushing: 17*
*Bit: (For Router) Straight (3-4mm)*
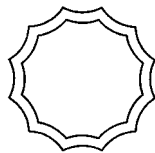*Bit: (For Rotary Tool) Straight*







**Cutout #4**
*Design Size: 3 5/16" (130 mm)*
*Template Window: 2 & 6*
*Portion of Window Cut:*
    *(First Pass): 2 - All, 6 - Tip*
    *(Second Pass): 6 - Template*
    *positioned so center of*
    *Window 6 is above point on*
    *Window 2) - Bottom*
*Rotation: 4 on all*
*Bushing: 17*
*Bit: (For Router) Straight (3 mm)*
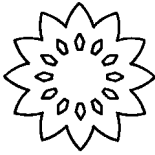*Bit: (For Rotary Tool) Straight*

**Cutout #5**
*Design Size: 3 5/16" (130 mm)*
*Template Window: 6 & 4*
*Portion of Window Cut:*
    *(First Pass): 6 - Bottom*
    *(Second Pass): 4 – Template*
    *positioned so center of*
    *Window 4 is above center*
    *point between two Window 6*
    *designs - bottom*
*Rotation: 2 on both*
*Bushing: 17*
*Bit: (For Router) Straight (3-4*
    *mm)*
*Bit: (For Rotary Tool) Straight*

**Cutout #6**
*Design Size: Choice of*
*1 3/4" (70 mm),*
*2 9/16" (100 mm) or*
*3 5/16" (130 mm)*
*Template Window: 2 or 3*
*Portion of Window Cut:*
    *(First Pass): 2 - All*
    *(Second Pass): 4 – Template*
    *positioned so center of*
    *Window 4 is above center*
    *point between two Window 6*
    *designs - bottom*
*Rotation: 4 on all*
*Bushing: 17*
*Bit: 1 (3 mm)*

**Cutout #7**

*Design Size: 2 $^9/_{16}$" (100 mm) and
    3 $^5/_{16}$" (130 mm)*

*Template Window: 2 & 3*

*Portion of Window Cut:*

*(First Pass): 2 - Tip*

*(Second Pass): 3 – Template
positioned so center of Window
3 is above center point of
Window 2 design- Tip*

*Rotation: 2 on both*

*Bushing: 17*

*Bit: (For Router) Straight (3 mm)*

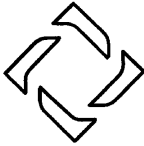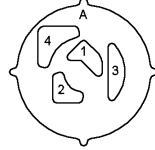*Bit: (For Rotary Tool) Straight*

# <u>NOTES</u>

# TEMPLATE #2
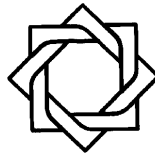# *Designs*

*All designs made with Template #2.*

**Design #1**
Design Size: 1 $^3/_4$" (70 mm)
Template Window: 1
Portion of Window Cut: All
Rotation: 6
Bushing: 17
Bit: (For Router) Straight
(3-4 mm), V-Groove (lettering),
Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
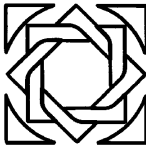V-Groove (lettering),

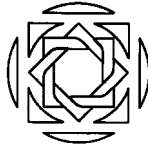**Design #2**
Design Size: 1 $^3/_4$" (70 mm)
Template Window: 1
Portion of Window Cut:  All
Rotation: 4
Bushing: 17
Bit: (For Router) Straight
(3, 4, 5 mm), V-Groove (lettering),
Any Decorative Plunge
Bit: (For Rotary Tool)
Straight, V-Groove (lettering),

**Design #3**
Design Size: 1 $^3/_4$" (70 mm)
Template Window: 1
Portion of Window Cut: All
Rotation: 3
Bushing: 17
Bit: (For Router) Straight
(3, 4, 5 mm), V-Groove (lettering),
Any Decorative Plunge
Bit: (For Rotary Tool)
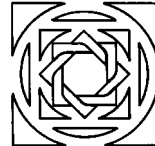Straight, V-Groove (lettering),

**Design #4 (Small corners
added to Design #3)**
Design Size:  1 $^7/_8$" (75 mm)
Template Window: 2
Portion of Window Cut: All
Rotation: 6
Bushing: 17
Bit: (For Router) Straight
(3, 4 mm), V-Groove
(lettering), Any Decorative
Plunge
Bit: (For Rotary Tool) Straight,
V-Groove (lettering),

**Design #5 (Small ovals
added to Design #4)**
Design Size:  2 $^9/_{16}$" (100 mm)
Template Window: 3
Portion of Window Cut: All
Rotation: 6
Bushing: 17
Bit: (For Router) Straight
(3, 4 mm), V-Groove
(lettering), Any Decorative
Plunge
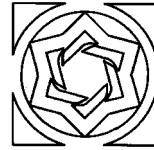Bit: (For Rotary Tool) Straight,
V-Groove (lettering),

**Design #6 (Large corners
added to Design #5)**
Design Size:  2 $^7/_8$" (115 mm)
Template Window: 4
Portion of Window Cut: All
Rotation: 6
Bushing: 17
Bit: (For Router) Straight (3, 4
mm), V-Groove (lettering),
Any Decorative Plunge
Bit: (For Rotary Tool) Straight,
V-Groove (lettering),

**9**

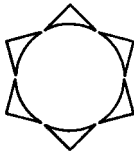**Design #6 Alternate (Rotate template 45º and repeat Design #6)**



**Design #7 (Circular elements added to Designs 1, 2 or 3)**
*Design Size: 3" (120 mm)*
*Template Window: 3 (Outer Circle) 2 & 4 (Inner Circle)*
*Portion of Window Cut: All for #3, round side for 2 & 4*
*Rotation: 4 for all*
*Bushing: 17*
*Bit: (For Router) Straight (3, 4 mm), V-Groove (lettering), Any Decorative Plunge*
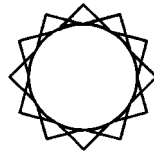*Bit: (For Rotary Tool) Straight, V-Groove (lettering),*



**Design #8 (Corner elements added to Designs 1, 2 or 3)**
*Design Size: 3" (120 mm)*
*Template Window: 2 (angles), 3 (arc), 4 (outer corner)*
*Portion of Window Cut: Tip for 2, round side for 3, all for 4*
*Rotation: 6 for all*
*Bushing: 17*
*Bit: (For Router) Straight (3, 4 mm), V-Groove (lettering), Any Decorative Plunge*
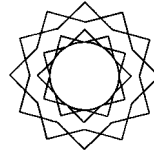*Bit: (For Rotary Tool) Straight, V-Groove (lettering),*



**Design #9**
*Design Size: 2 9/16" (100 mm)*
*Template Window: 2*
*Portion of Window Cut: All*
*Rotation: 4*
*Bushing: 17*
*Bit: Any choice*
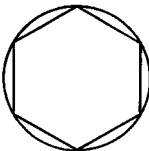*Can insert Design 1, 2 or 3 if desired.*



**Design #10**
*Design Size: 2 9/16" (100 mm)*
*Template Window: 2*
*Portion of Window Cut: All*
*Rotation: 2*
*Bushing: 17*
*Bit: (For Router) Straight (3 mm), V-Groove (lettering), Any Decorative Plunge*
*Bit: (For Rotary Tool) Straight, V-Groove (lettering),*
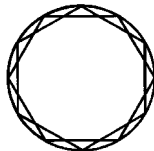*Can insert Design 1, 2 or 3 if desired.*



**Design #11**
*Design Size: 4" (160 mm)*
*Template Window: 2 & 4*
*Portion of Window Cut: All for 2, Tip for 4*
*Rotation: 2 for both*
*Bushing: 17*
*Bit: (For Router) Straight (3 mm), V-Groove (lettering), Any Decorative Plunge*
*Bit: (For Rotary Tool) Straight, V-Groove (lettering),*
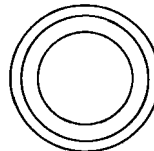*Can insert Design 1, 2 or 3 if desired.*



**Design #12**
*Design Size: 2 9/16" (100 mm)*
*Template Window: 3*
*Portion of Window Cut: All*
*Rotation: 4*
*Bushing: 17*
*Bit: Any choice*
*Can insert Design 1, 2 or 3 if desired.*



**Design #13**
*Design Size: 2 9/16" (100 mm)*
*Template Window: 3*
*Portion of Window Cut: All*
*Rotation: 2*
*Bushing: 17*
*Bit: (For Router) Straight (3 mm), V-Groove (lettering),*
*Bit: (For Rotary Tool) Straight, V-Groove (lettering),*
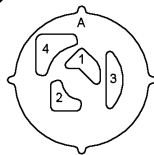*Can insert Design 1, 2 or 3 if desired.*



**Design #14**
*Design Size: 1 7/8" (74mm), 2 9/19" (100 mm), 3" (118 mm)*
*Template Window: 2 & 3 & 4*
*Portion of Window Cut: round side*
*Rotation: 3*
*Bushing: 17*
*Bit: Any choice*
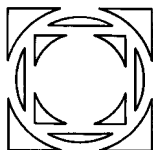*Can insert Design 1, 2 or 3 if desired.*

# TEMPLATE #2
# *Lacework*

*All designs made with Template #2.*

### Lacework #1
*Design Size: 2 $^7/_8$" (115 mm)*
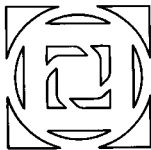*Template Window: 2 & 3 & 4*
*Portion of Window Cut: All*
*Rotation: 6*
*Bushing: 17*
*Bit: (For Router)*
*    Straight (3 -4 mm)*
*Bit: (For Rotary Tool) Straight*

### Lacework #2
*Design Size: 2 $^7/_8$" (115 mm)*
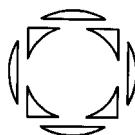*Template Window: 1 & 3 & 4*
*Portion of Window Cut: All*
*Rotation: 6*
*Bushing: 17*
*Bit: (For Router)*
*    Straight (3 - 4 mm)*
*Bit: (For Rotary Tool) Straight*

### Lacework #3
*Design Size: 2 $^9/_{16}$" (100 mm)*
*Template Window: 2 & 3*
*Portion of Window Cut: All*
*Rotation: 6*
*Bushing: 17*
*Bit: (For Router)*
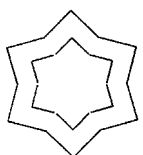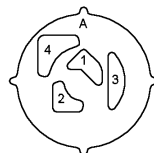*    Straight (3 - 4 mm)*
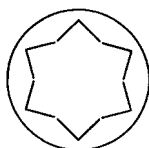*Bit: (For Rotary Tool) Straight*

# TEMPLATE #2
# *Cutouts*



*All designs made with Template #2.*
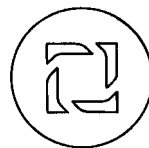


**Cutout #1**
*Design Size:  4" (160 mm)*
*Template Window:  2 & 4*
*Portion of Window Cut:  Tip*
*Rotation:  4*
*Bushing:  17*
*Bit: (For Router)*
*    Straight (3 -4 mm)*
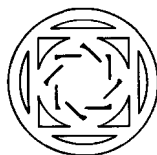*Bit: (For Rotary Tool) Straight*



**Cutout #2**
*Design Size:  2 $^7/_8$" (115 mm)*
*Template Window:  4 & 2*
*Portion of Window Cut:*
*    Round side 4, Tip 2*
*Rotation:  3 on 4, 4 on 2*
*Bushing:  17*
*Bit: (For Router) Straight (4 mm)*
*Bit: (For Rotary Tool) Straight*



**Cutout #3**
*Design Size: 2 $^9/_{16}$" (100 mm)*
*Template Window: 1 & 3*
*Portion of Window Cut: All on 1,*
*    Round side on 3*
*Rotation: 6 on 1, 4 on 3*
*Bushing: 17*
*Bit: (For Router)*
*    Straight (3 - 4 mm)*
*Bit: (For Rotary Tool) Straight*



**Cutout #4**
*Design Size:  3" (120 mm)*
*Template Window:  1 & 2 & 3*
*Portion of Window Cut:*
*    All for all*
*Rotation:  3 on 1, 6 on 2 & 3*
*Bushing:  17*
*Bit: (For Router) Straight (3-4mm)*
*Bit: (For Rotary Tool) Straight*