

# P.E.P. TECHNOLOGY<sup>©</sup>

## CAD/CAM SOFTWARE

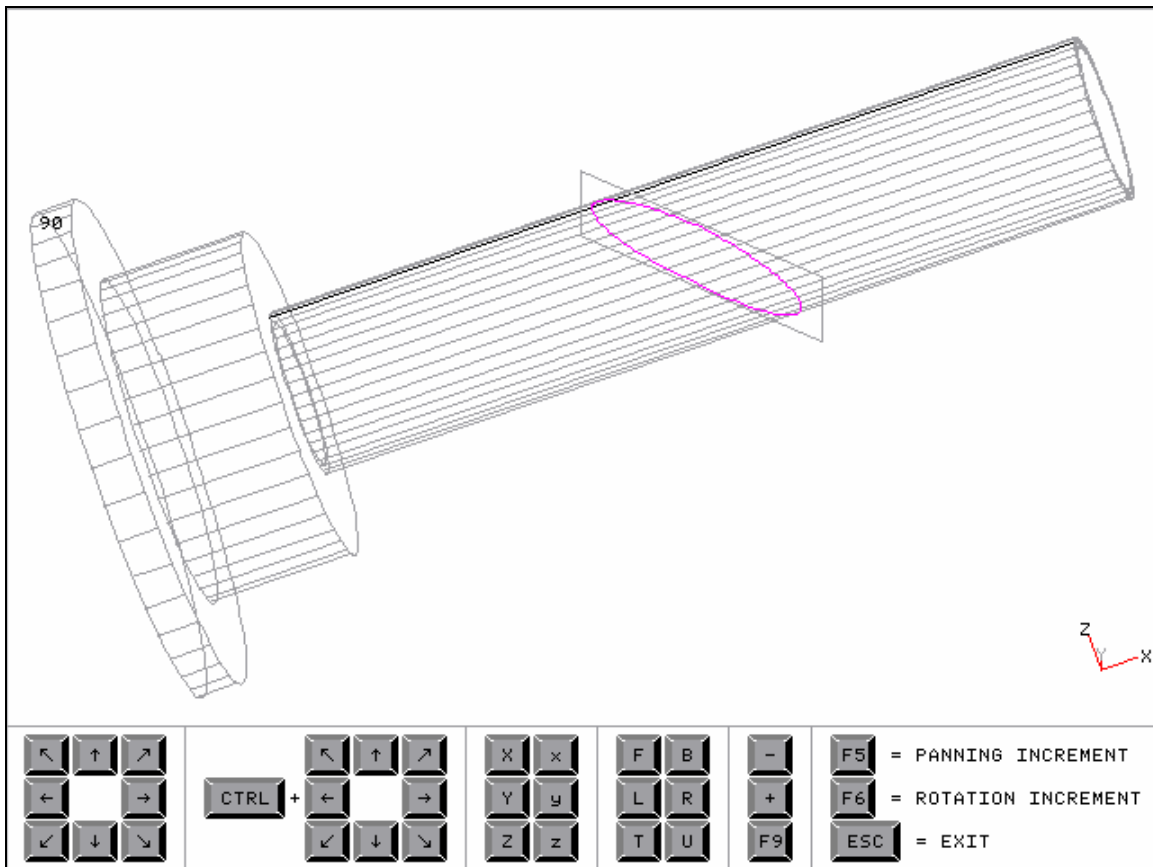
### ROTARY CHUCK

The following pages describe just some of the rotary software capabilities. What is not shown is how simple it is to cut objects of any shape multiple times around the tube whether it be a spiral or grid format.

#### ROUND TUBE STOCK

##### Intersection with a plane: (Figure 1)

The program can slice a round tube with a plane that is at any angle other than 0°. Any intersection that occurs at the end of the round tube is also allowed. Before slicing the tube, the user is prompted to choose which side is to be the finished cut. The finished side can be placed on a table and will lie completely flat, whereas the other side will rock when the plane is at any angle other than 90°. This rocking becomes more noticeable as the thickness of the wall of the tube gets larger.



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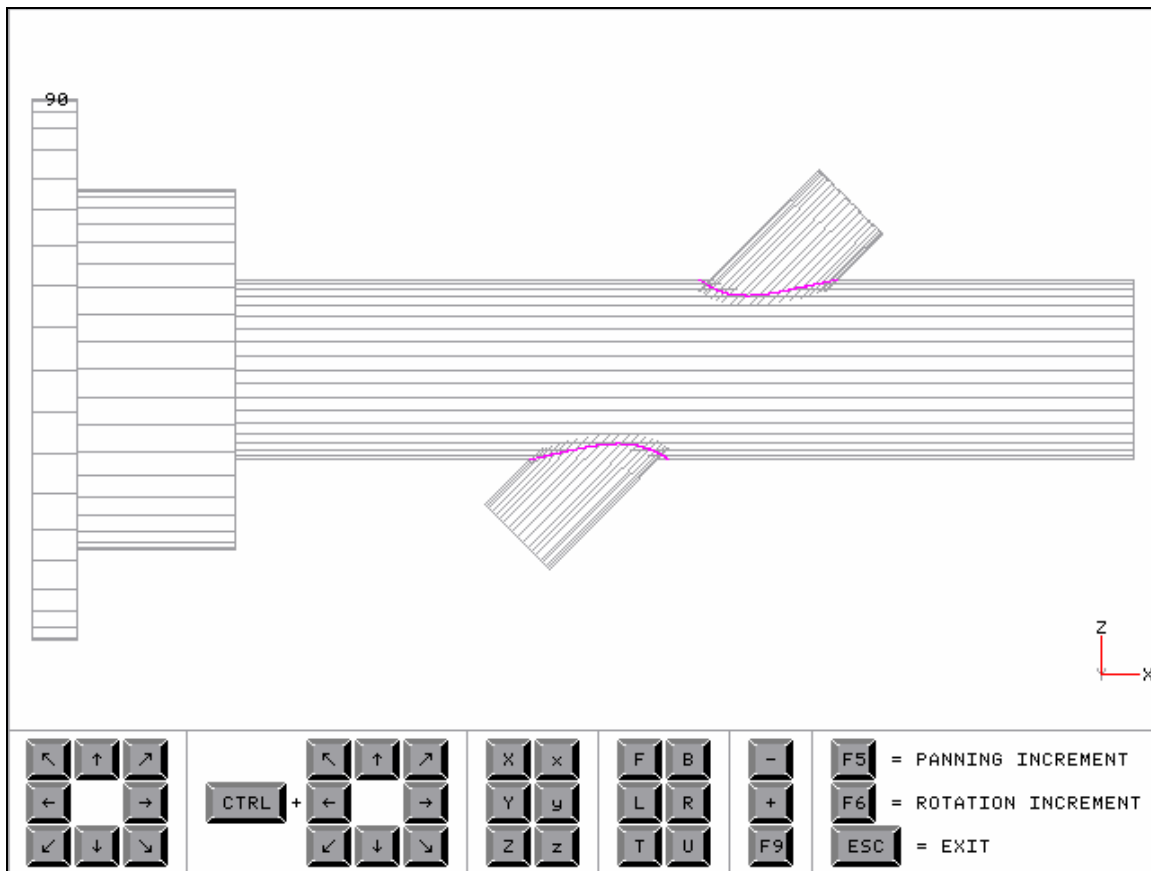
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### Intersection with a round tube: (Figure 2)

The program can slice a round tube with another round tube that is at any angle other than 0°. It is only limited by not being able to create the intersection if the intersecting tube is offset from the centerline by an amount that will make it overlap either edge of the round tube stock.

The program can create the correct intersection if the intersecting tube lies completely within the tube stock or extends beyond both edges of the tube stock.

The user is prompted to choose which intersection they would like to keep. For a small diameter intersecting tube that lies completely within the tube stock, you are prompted to keep the top intersection, the bottom intersection, or both the top and the bottom intersection. For a large diameter intersecting tube, you are prompted to keep the left intersection, the right intersection, or both the left and the right intersection.



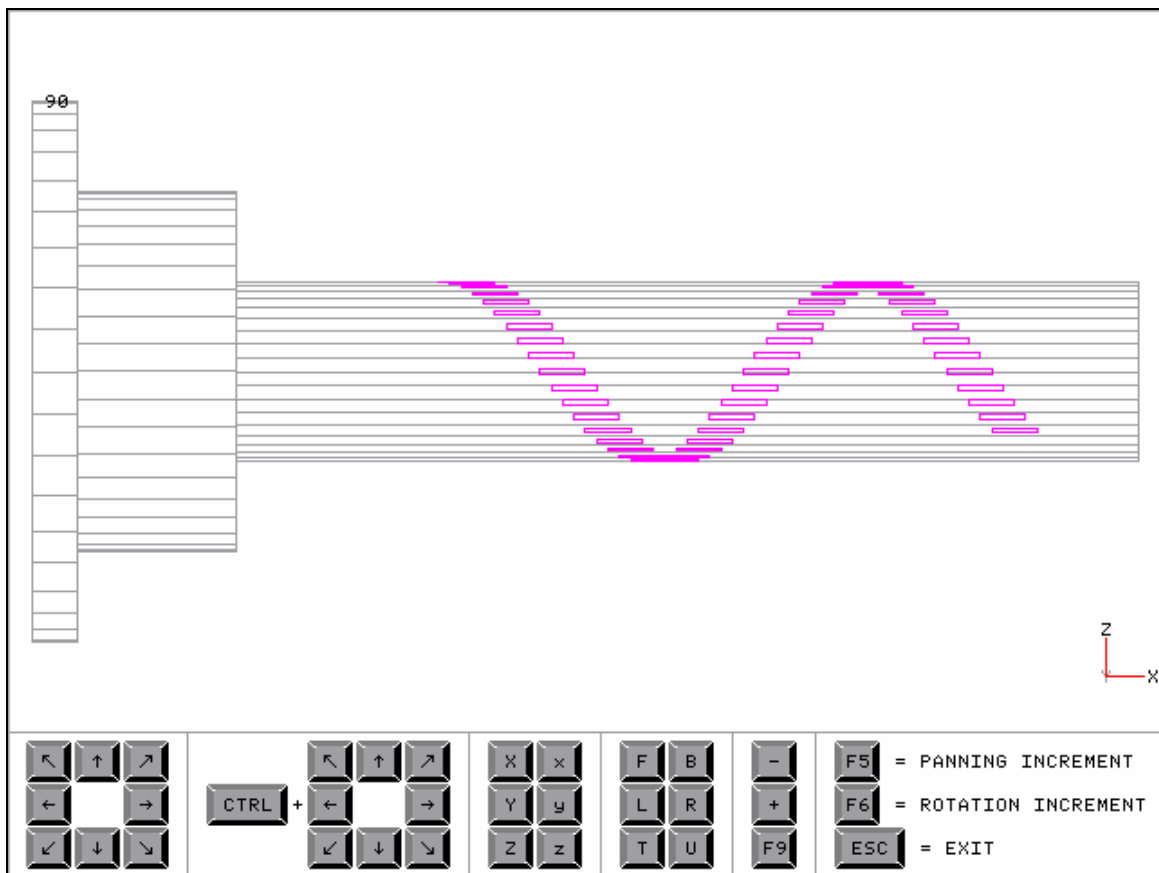
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### Intersection with a rectangle or slot: (Figure 3)

The program can project a rectangular slot or a rounded slot onto the tube stock at any angle from 0° to 360°. The only limitation is the slot must not be longer than the diameter of the tube stock when the angle of the slot is at 90°. The slot may be placed any number of times along the tube stock with or without a rotation. By specifying an increment in x, the slots will be placed along the length of the tube stock. By specifying a rotational increment, the slots will be placed around the tube stock. By specifying both an increment in x and a rotational increment, the slots will be placed in a spiral pattern.



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### RECTANGULAR TUBE STOCK

#### Intersection with a plane: (Figure 4)

The program can slice a rectangular tube with a plane that is at any angle other than 0°. Any intersection that occurs at the end of the tube stock is also not allowed. Before slicing the tube, the user is prompted to choose which side is to be the finished cut. The finished side can be placed on a table and will lie completely flat, whereas the other side will have a gap between the tube stock and the table when the angle of the plane is at any angle other than 90°.

