

Purpose: To cut a non-AM bowling pin into segments so individual sections can be analyzed.

Materials:

- Bowling Pin to be cut
- Band Saw
- Bowling Pin horizontal cutting jig
- Pencil
- Straight Edge

Procedure:

1. Place the bowling pin into the horizontal cutting jig.
2. Supply power to the band saw.
3. Set the jig so the labels for the head of the bowling pin, neck and ball zone are on the top. Cut the bowling pin on the band saw at the designated locations. The black lines on the labels are the cut lines that need to be followed for non-AMF bowling pins. See figure 1 for a visual of a non-AMF bowling pin that has been cut in the cutting jig.

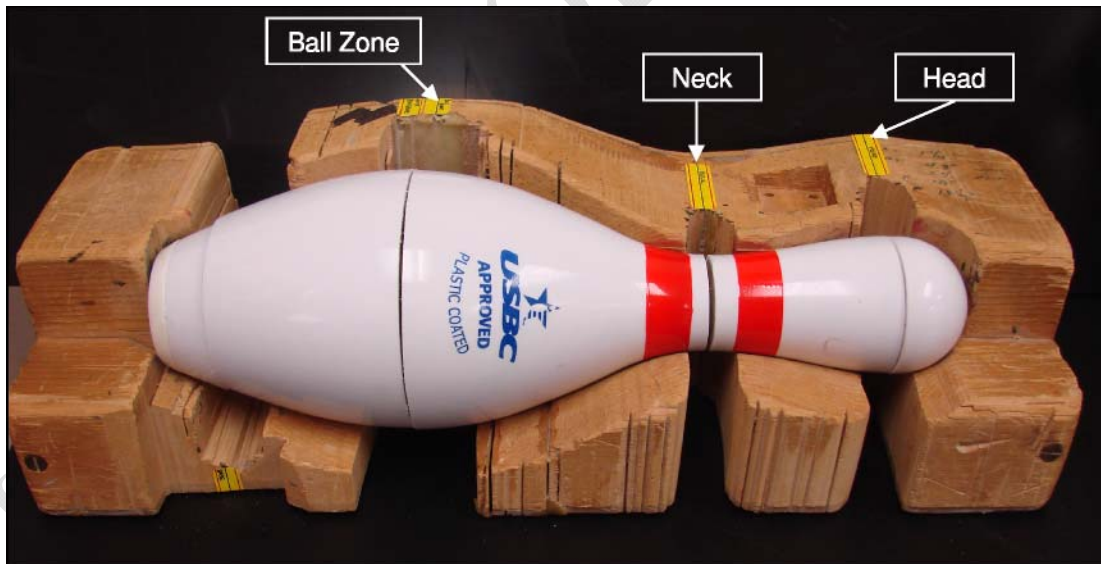


Figure 1 - Cut bowling pin in cutting jig. The cuts are made at the black lines at each labeled section. Three cuts are made from this direction: head, neck and ball zone.

4. Turn the jig so the label for the base cut is facing upwards.
5. Make the cut at the base of the bowling pin on the band saw. The black line on the label for base is the cut line that needs to be followed. See figure 2 for a visual of the rotated cutting jig and the label for the cut at the base of the bowling pin.



Figure 2 – Cut bowling pin in the cutting jig. The cut made with the jig at this position is the cut at the base of the bowling pin.

6. Remove the bowling pin segments from the cutting jig.
7. Power down the band saw.