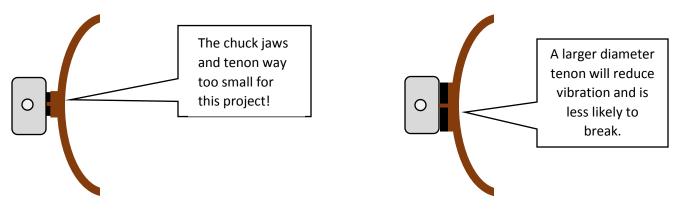
## **Turning a Safe and Effective Tenon**

## **By: Don Geiger**

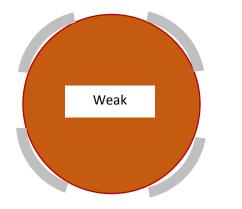
Although most demonstrators and teachers emphasize how to turn a safe and effective tenon, many turners still loose pieces off their lathe due to poorly turned tenons.

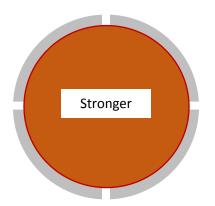
Below are five (5) common *mistakes* with suggestions on how to improve the odds in your favor.

1) The diameter of the chuck jaws is too small for the project.

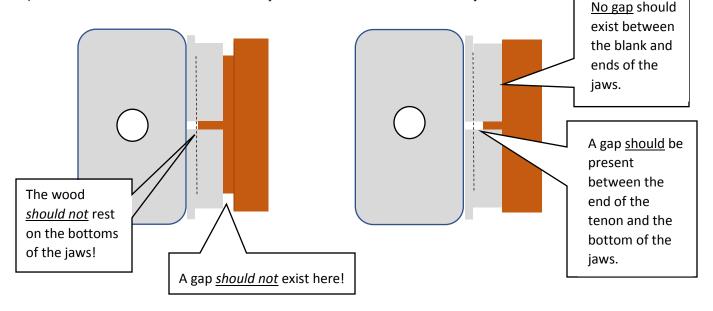


2) The turner produces a tenon too large in diameter to be safely held in the chuck jaws.

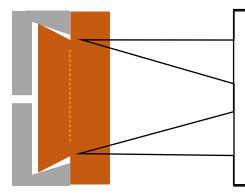




3) The tenon rests on the bottom of the jaws instead of on the ends of the jaws.



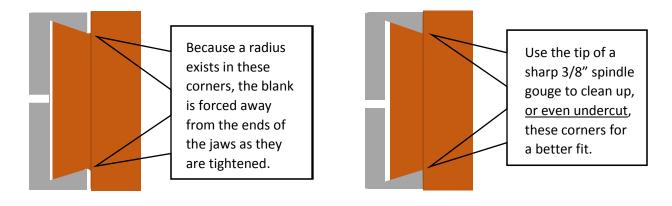
4) The angle of the wooden dovetail doesn't match the angle of the jaws.



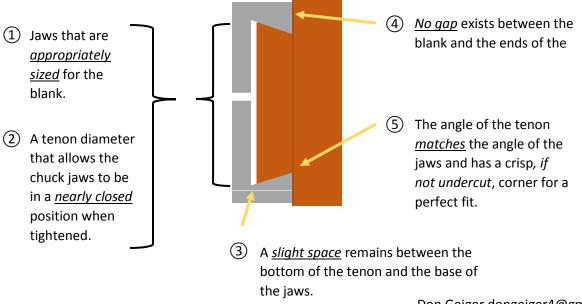
If the angle of the wooden dovetail doesn't match the angle of the chuck jaws, the ability to hold the blank securely is sacrificed.

If this occurs on a side-grain blank, there is a risk of the jaws splitting the wood as their grip is increased.

5) A radius exists in the corner (indicated below) causing the blank to be pushed away from the ends of the jaws as they are tightened creating an unwanted gap between the blank and the ends of the jaws.



In summary; an *ideal tenon* should have the following features:



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