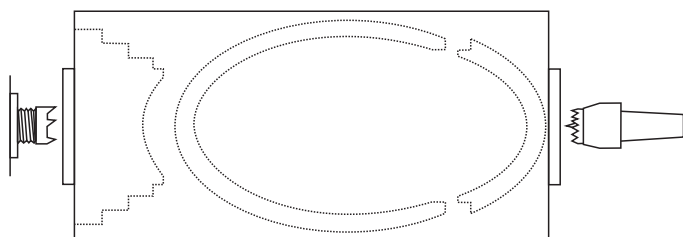


Rugby Ball Box

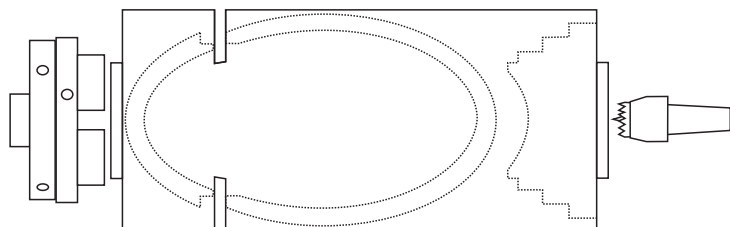
As developed by Denise Donovan

For easier making of this box you are advised to make a full-size template as on page three of this project, which you can fold to show the curve of the side or ends of the ball. This project is intended to make a ball which is 140 mm long.

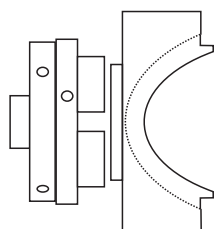


You may start this project with wood that is 90 x 90 x 160 mm long to make just the ball or, as shown here, 200 mm long with a ball stand made from one end of the block.

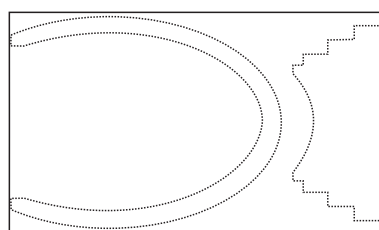
Mount the block between centres and cut a spigot on both ends.



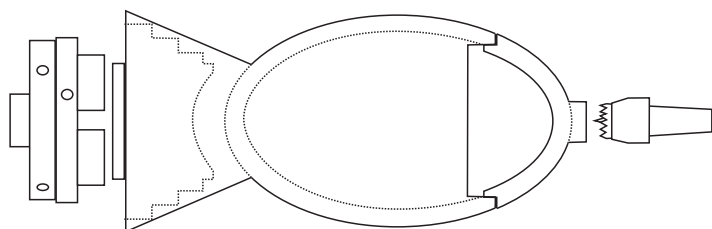
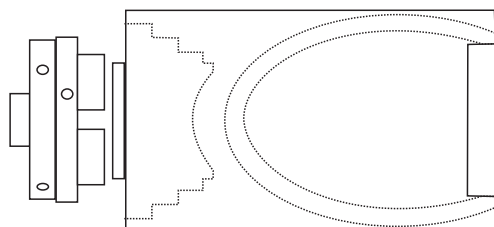
Mount the wood by the planned box top end in a chuck. Turn it round but not down to size. Make a parting cut between the 40 and 45 mm distances from the chuck-held end of the wood.



Take measurements from the template and then mark and cut the lips of the lid. Cut, sand and finish the inside of the lid. Remove this part from the chuck.

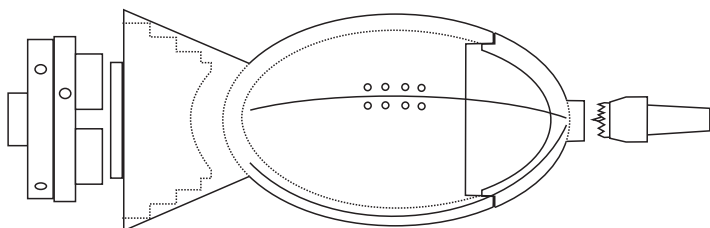


Mount the lower part of the box in a chuck. Cut the upper edge to fit the lid.

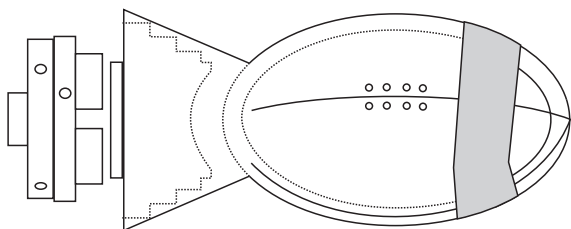


Mount the lid on the box and bring up the tailstock to hold it in place. Using the template to measure diameter and shape, turn and finish the outside of most of the ball as shown.

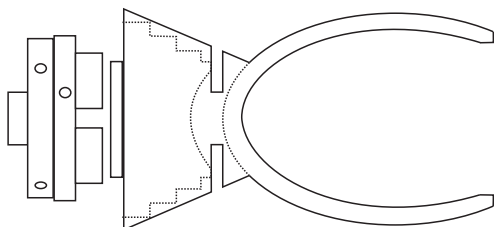
Rugby Ball Box P2



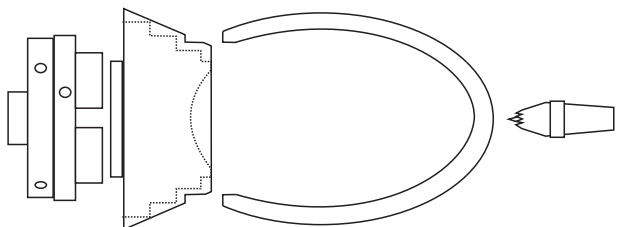
Mark boldly, or carve, the joins between the four quarters of the ball surface. Drill eight holes for the closing lace.



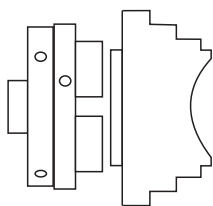
Apply tape to hold the lid in place. Remove the tailstock and cut the end of the ball to shape. Sand and finish this surface.



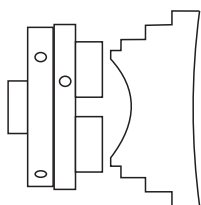
Remove the tape and set the lid aside. Hollow and finish the inside of the box. Part it off.



Use the wood that remains in the chuck as a jam chuck. Mount the box on this and use tape or hot melt glue to hold it in place. Bring up a small tail for added security. Cut away the surplus wood. Remove the tailstock to allow completion of the cutting. Sand and finish.



Cut the remaining wood to be a stand for the rugby ball. Make the sides stepped so that the smallest step is a spigot for remounting the stand. Sand and finish all these surfaces.



Turn the wood over and remount it in the chuck. Turn the under-side to be a slight concave. Sand and finish this surface.

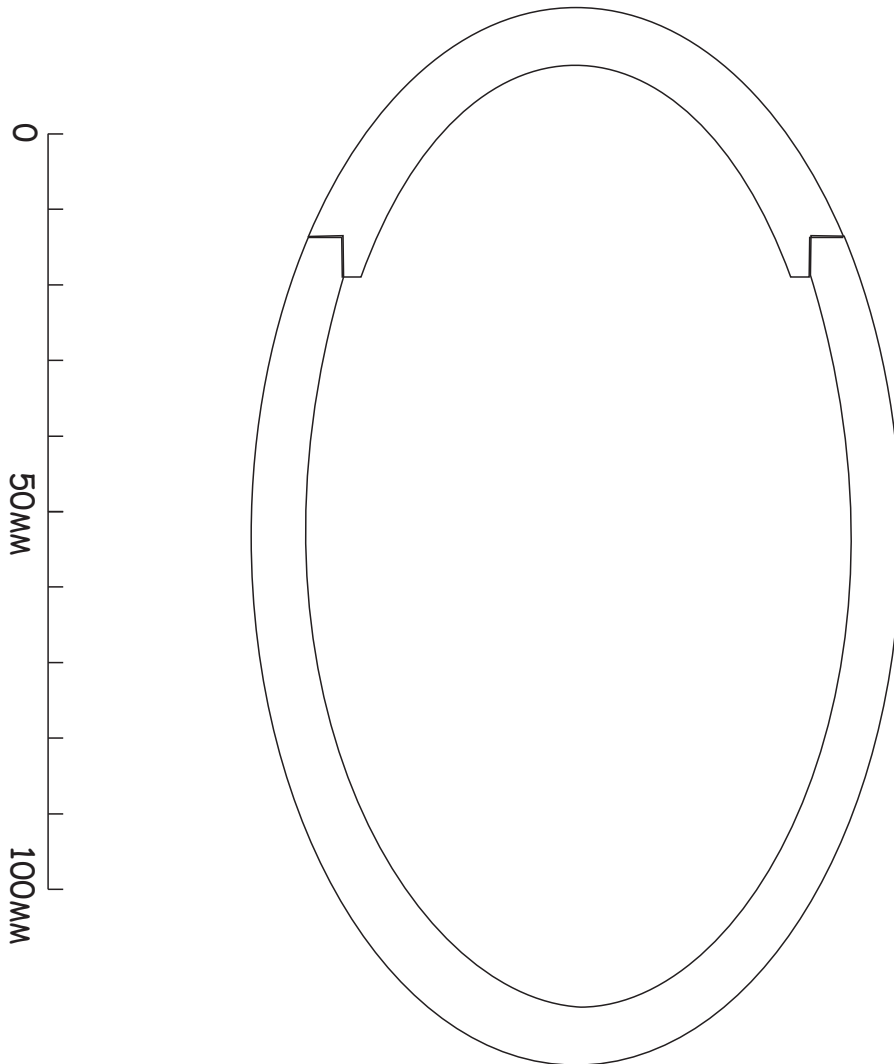
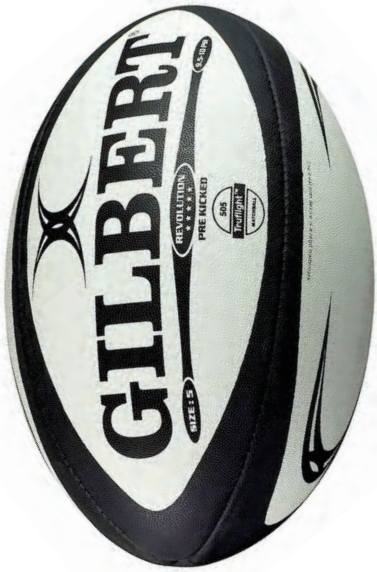
Decorate the ball with the colours and textures of your choice.



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Rugby balls are not made to an exact size, but must fit within a range of dimensions.