

CARVING BY NUMBERS

Mike Davies

www.CarvingbyNumbers.com



Woodcarving by Numbers is a simple to follow programme that guides woodworkers of all skill levels to become competent woodcarvers. Available with a selection of tool sets, simply match your carving tools to the numbered profile chart, and follow the step-by-step guidance through a wide selection of projects. As a bonus with each tool set, you will have access to a comprehensive treasure trove of technique tutorials, project, and guidance videos. Watch and learn the Significant Six carving techniques and practice them on a selection of projects, graded in difficulty, designed to put your skills to the test. The ultimate goal is to create designs of your own to add a unique point of difference to your woodworking projects.

Please refer to the **Significant Six techniques tutorial** or watch the **Foundation Skills DVD** at www.carvingbynumbers.com for safety and guidance with your techniques.

Corbels

This project makes use of tool numbers 1, 2, 3, 4, 5, 6, 7 and 12. For instructions on how to complete using the Essential Collection only, please refer the Woodcarving by Numbers book at www.CarvingbyNumbers.com

Sweep Profile Reference Chart

Essential Collection:



Pattern Carving Set:



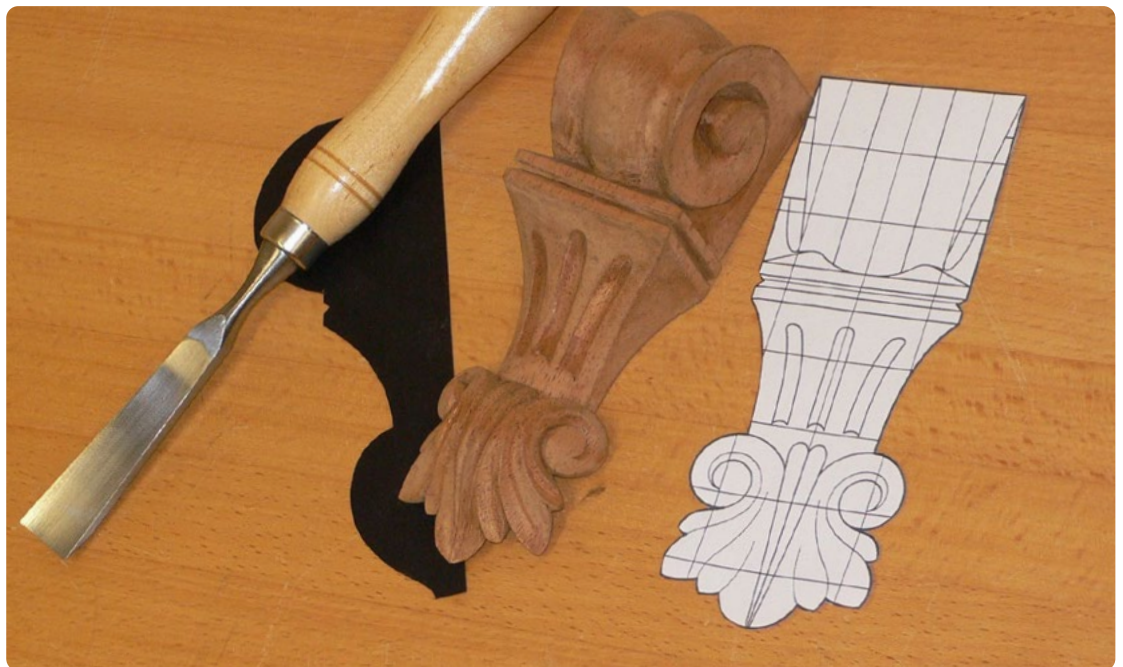
8 —

Spoon Carving Set:



Comprehensive Collection:

Bonus Gouge



Picture 1.

The corbel is a much used form of applied decoration, most commonly found on carcass furnishing. The design varies tremendously according to the functional requirement and the tastes of the different periods in history. You can often see them supporting the protruding mouldings and sills of impressive historic buildings. On furniture, the function is mostly ornamental and examples of some interesting variations can be found by typing 'Carved Corbel' into your Internet search engine.

1. To begin this project, first photocopy or redraw the illustration in Fig 1 to scale and use the drawings to produce stencils. **Picture 2.**

2. The timber dimensions for each corbel will need to measure 150 x 50 x 50mm. I have chosen mahogany for this project, but oak, pine, beech, rosewood and walnut are a small selection of the many possibilities that could be chosen.

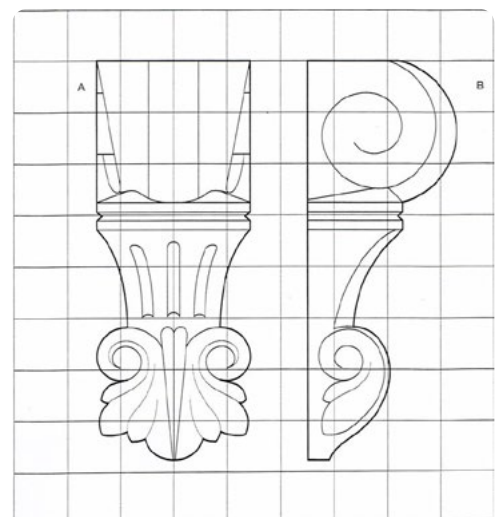
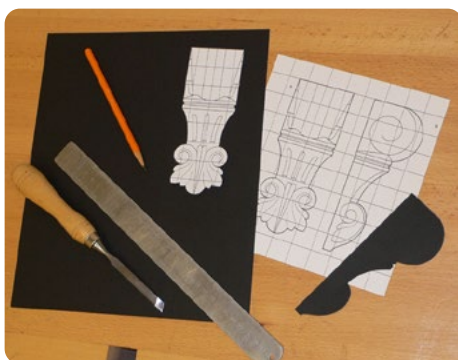


Figure 1.

3. Ensure the block of timber is prepared so that it is square and clean. Now select the best face side and face edge, and mark them with the appropriate symbols. Then placed the stencil formed by **Figure 1 A** onto the 'face-side', mark around the edge and cut out the profile as accurately as possible. **Picture 3**. If you have access to a bandsaw, you will find this the quickest and easiest method of cutting the blank.



Picture 2.

4. After cutting the first profile of the corbel, place the stencil formed by **Figure 1 B** onto the 'face-edge'. Draw around the stencil and carefully cut the shape. **Picture 4 & Picture 5**.



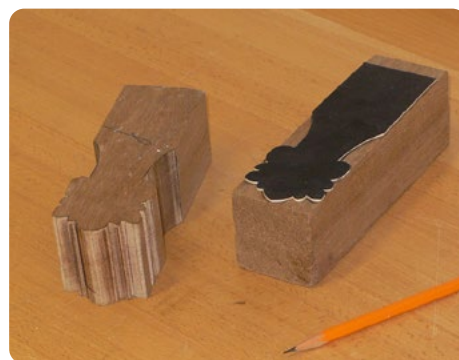
Picture 4.

5. Note in **Picture 6** how the design is broken down into 4 divisions; A,B,C &D. These divisions will be used to reference the areas of the carving as we work on each component.



Picture 6.

6. Mark two central parallel lines to divide area A into 3 portions. The middle portion should measure 20mm with the 2 outside areas measuring 15mm each in width. Then divide the outer portions with diagonal lines that fall from the very top of the blanks outer edge to the middle of the division where area A meets B. **Picture 7**.

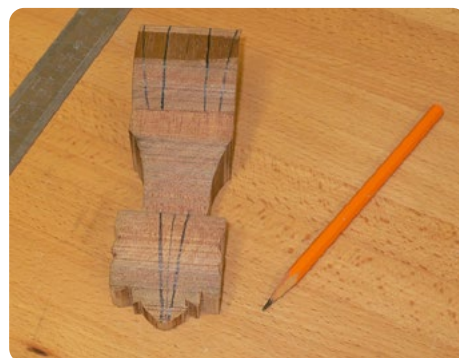


Picture 3.



Picture 5.

Next form the elongated V line required on section D. At its widest point the V should be exactly 12 mm, narrowing to meet at the very bottom of the design. This V will form the central vein for the acanthus leaf design.



Picture 7.

7. Also mark the side scroll on both sides of section. It is helpful to make a stencil for this process. **Picture 8**.

8. Now it's time to secure your work for carving. A carving clamp is very helpful for this type of work. With tool ref. #3, 4 & 7, set in the profile of the scroll on both sides of section A, making sure that the cuts are made at 90 degrees to the timbers surface. This ensures that the scroll remains the same dimension at the bottom of the cut. **Picture 9**.



Picture 8.

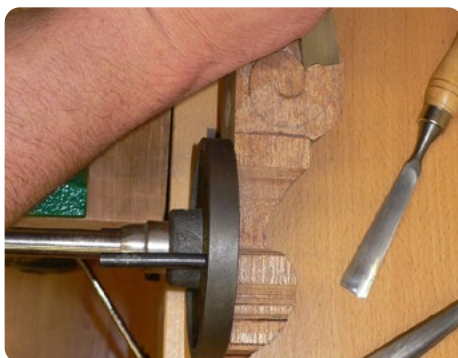
9. Then with tool ref #6, carve the outer diagonal lines of section A down to the 'set in' cuts of the side scrolls. **Picture 10**.



Picture 9.

Notice the diagonal cut does not continue to the rear of the design, but tapers out to the full width of the corbel.

10. Next use tool ref #5 to form the deep V shaped grooves to define the central vein of the acanthus leaf on section D. Hold the carving tool at a slide angle, providing the vein with vertical side walls. Try the 'tapping technique' using a mallet. **Picture 11**.



Picture 10.



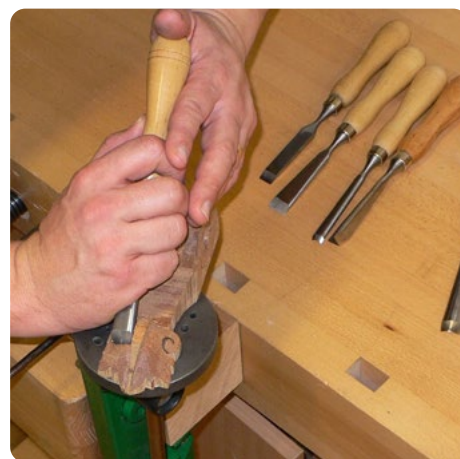
Picture 11.

11. Define the central portion of section A using tool ref #5, ensuring that the side walls are vertical to the surface of the wood. Then with tool ref #1 or 6, reduce the two outer portions of area A to follow the profile of the side scroll. **Picture 12.**



Picture 12.

The next stage is to shape section D as shown. Remove most of the timber on either side of the central vein with tool ref #6 and round over the surface with tool ref #4. This will then allow you to mark the scrolls on either side. **Picture 13**



Picture 13.

12. Set in the scrolls on section D with tool ref #2 & 3 and define their shape by slicing down the cut lines with tool ref #3 & 7. Now form a channel with tool ref #2 & 3 to shape the two large side leaves of section D. This should form two high ridge lines that flow in the line of the scroll. **Picture 14.**



Picture 14.

13. Round over the central vein of section D using tool ref #3. **Picture 15.**



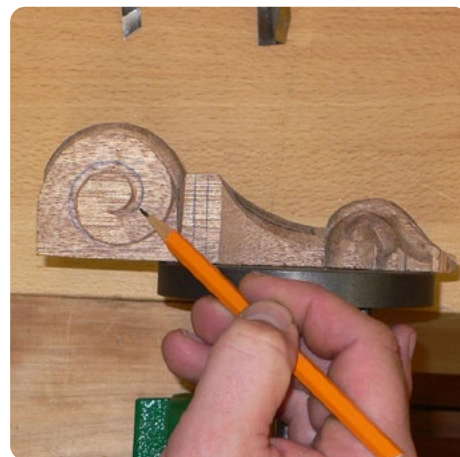
Picture 15.

14. Now let's create the high central ridge of section A by carving two deep troughs with tool ref #2 or 12 on either side of the central division. **Picture 16.**



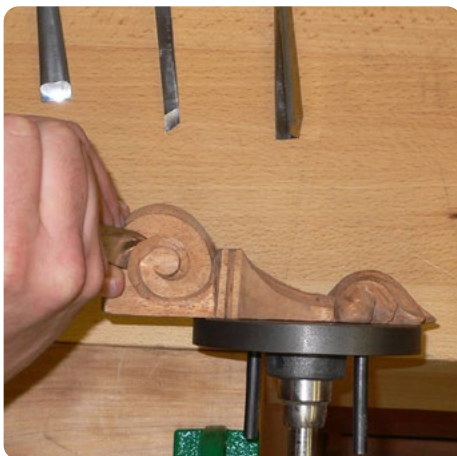
Picture 16.

15. Mark the side scrolls of section A with a spiralling line. **Picture 17**, and begin to develop the scrolls with tool ref #3 & 7 by setting in the profile lower. Then slice down at an angle from the spiralling line towards the deepened perimeter to create a ridge line defining each scroll further **Picture 18**. Here you can also see how the lower part of section C has been shaped with carving tool ref #1 or 6.



Picture 17.

16. Next, mark the three flutes on section C and use tool ref #2 to create the concave details. Carve carefully between your pencil lines to establish the depth of the flutes. Note how the flutes are finished at their base. This can also be completed using tool ref #2. **Picture 19.**



Picture 18.



Picture 19.

17. Now, you can create the V shaped channel between along the top and sides of section B. First mark the channel in pencil and complete the cut using tool ref #5. If you encounter awkward grain, you should use tool ref #1 to cut the channel from each side using 2 cuts at 45 degrees. **Picture 20.**



Picture 20.

18. Use tool ref #2 to form the smaller channels on the acanthus leaves on section D. **Picture 21.**



Picture 21.

19. Now decorate the leaves further, adding individual veins by making very shallow cuts down the centre of each leaf with tool ref #5. Draw the lines in pencil first to provide a guide. **Picture 22.**



Picture 22.

20. With tool Ref #5 carve a small V shaped channel down the middle of the central vein in section D and round over each side using tool ref #1. **Picture 23.**



Picture 23.

21. Finally, clean up the outside edges of the leaves. To complete the corbel use the technique of 'backing off'.

Backing off is a process commonly used on 3 dimensional carvings to remove surplus timber from the rear. The general idea is to remove the bulk of the timber from the edges of the carving where it can be seen, but to leave enough at the rear of the carving to retain its strength.

Gently place the finished carving on a soft cushion and with Tool ref #1 remove small slithers of timber from the reverse side of the carving around the visible edges. Remember to always cut 'away' from the hand that is holding the carving and only use a controlled pressure. If you need to apply too much pressure to remove the timber, then your carving tool may

require sharpening or you are trying to remove excessive amounts of timber at one time. The danger of applying too much pressure is that you could damage the face of the carving, or you could slip with disastrous results.

In **picture 24**, you will see how only the very tips of the carving have been reduced to a fine point and the bulk of the remaining timber is out of sight.



Picture 24.

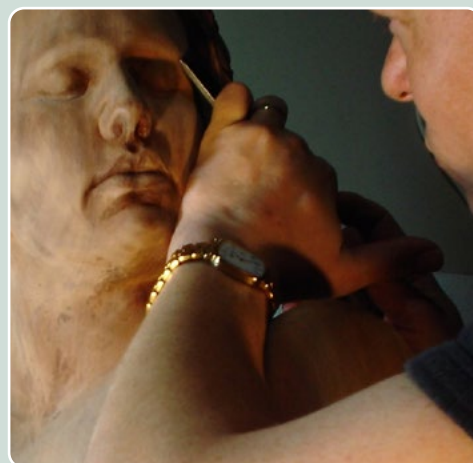
About the Author:

Mike Davies is an accomplished craftsman, who has completed projects for royalty, national trusts and private collectors alike. He has surveyed and restored works by many of the great designers and carvers from the past.

As a qualified teacher, he originally developed his 'Woodcarving by Numbers' educational system in 1994. It was created to help woodworkers of all skill levels to master the art of woodcarving.

Since then, his system has been published in magazines and books. It has been televised and used to teach students in schools and colleges around the world.

The information contained within this document, forms part of an educational package, which has been developed in cooperation with many of the world's leading carving tool manufacturers.



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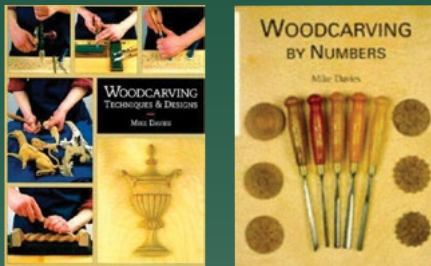
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Lettering



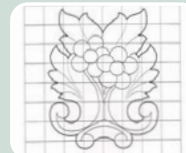
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Pattern Carving Set:



Spoon Carving Set:



Comprehensive Collection:

- ✦ Essential Collection
- ✦ Pattern Carving Set
- ✦ Spoon Carving Set
- ✦ Bonus Gouge
- ✦ Canvas Tool Roll



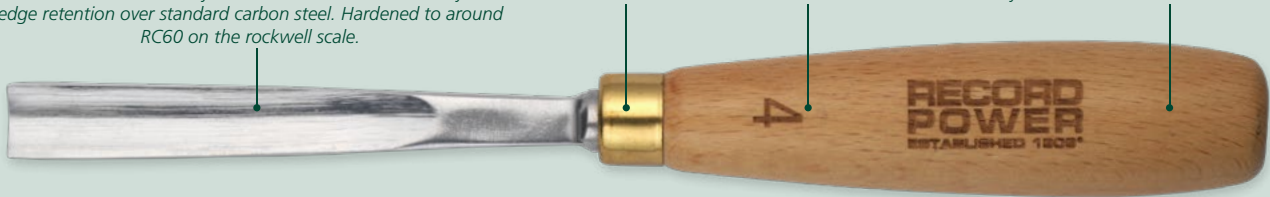
Premium Wood Carving Tools:

Chromium-vanadium alloy steel offers enhanced durability and edge retention over standard carbon steel. Hardened to around RC60 on the rockwell scale.

Brass ferrule

Numbered reference for educational system

Hardwood beech handle



Record Power has a long and impressive history. Established in Sheffield, the heart of the UK's steel industry, and stretching back over 100 years, we enjoy an enviable reputation for creating high quality tools through our many years of experience and unparalleled knowledge in manufacturing and design.

In addition to our UK-made products, we work with carefully selected partners from across the globe to ensure we supply only the best quality products possible. Record Power products are exported to more than 30 countries worldwide.

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