

ROUTER CARVER



trend[®]
routing technology

INTRODUCTION

The Trend Router Carver system creates variable depth intricate wood carvings with a hand router. Woodcarvings can be made on new or existing doors, frames, drawer fronts or any flat wood-based material.

- The system comprises a unique engraving cutter housed in a conical bearing guide, together with a set of templates and a template frame. The cutter is available in 8mm, 12mm and 1/2" shank diameter. The templates are produced from MDF and have accurately shaped slots with varying widths which guide the Router Carver both horizontally and vertically to give authentic carvings.
- Various templates are offered for different applications. The primary designs, Classical* and Royal continue through the entire range of applications providing a continuity of style for an entire house, room or individual furniture pieces.
- The template frames are used to locate the templates when routing and are left clamped in place until all routing operations are finished. Slots from different template designs can be chosen and used in conjunction to create your individual design.
- The Router Carver is available in three shank sizes, 8mm, 12mm and 1/2". The 8mm tool ref. RCCx8MMTC can be used with light duty professional hand routers fitted with a 8mm collet. The router aperture must be at least 40mm in diameter. On some routers it may be necessary to slightly file part of the aluminium guide bush fixing tabs on the router base to prevent fouling. Please note that the 8mm Router Carver cannot be used with templates RCT/LP/C, RCT/SP/C, RCT/DR/C and RCT/KD/FD.
- The 12mm shank tool ref. RCCx12MMTC, and the 1/2" shank tool ref. RCCx1/2TC can be used in heavy duty routers with the relevant size collet fitted. The router base aperture must be at least 45mm in diameter.
- All hand routers used must have a smooth plunging action.
- Pricing information is shown in the latest Trend Routing Catalogue. Contact our Sales department for details of your nearest Trend Router Carver Stockist.
- Our policy of continuous improvement means that the specifications of this product may alter without notice. The illustrations of the Router Carver carvings are schematic representations of the style of carving on a timber surface. The exact design of the carving produced may differ from the illustration. Always make a trial carving on a piece of scrap timber before commencing work on the final workpiece.
- The template designs are protected under worldwide Patents and therefore the replication of them is prohibited.
- Trend Machinery & Cutting Tools Ltd cannot accept any liability for consequential loss or materials rendered unusable as a result of using this product. Your statutory rights are not affected.



IMPORTANT!

The 8mm Router Carver cannot be used with the Classical Long Panel (RCT/LP/C), Short Panel (RCT/SP/C), Door Rail (RCT/DR/C) and Kitchen Door (RCT/KD/FD) templates.

INSTRUCTIONS

The 8mm Shank Router Carver Cutter

The Trend Router Carver system creates variable depth intricate wood carvings with a hand router. Woodcarvings can be made on doors, frames, drawer fronts or any flat wood-based material.

The system comprises a unique engraving cutter housed in a conical bearing guide, together with a set of templates and a template frame. The templates have accurately shaped slots with varying widths which guide the router carver both horizontally and vertically to give authentic carvings.



IMPORTANT!

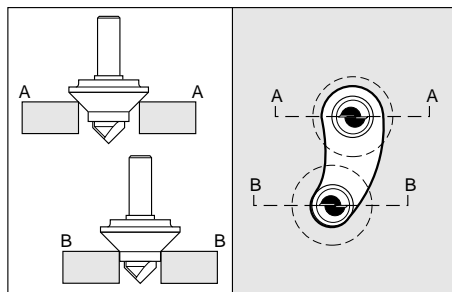
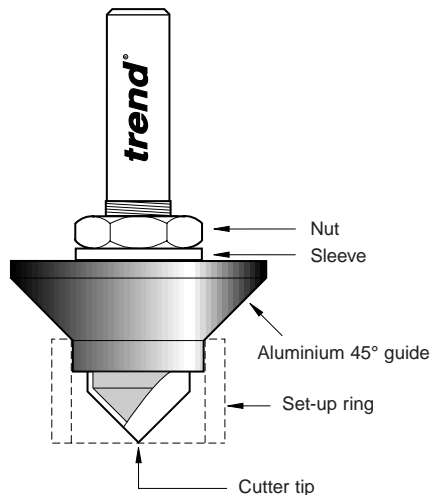
The 8mm Router Carver cannot be used with templates RCT/LP/C, RCT/SP/C, RCT/DR/C and RCT/KD/FD.

Various templates are offered for different applications. The primary designs, Classical and Royal continue through the entire range of applications providing a continuity of style for an entire house, room or individual furniture pieces.

The template frames are used to locate the templates when routing and are left clamped in place until all routing operations are finished. Slots from different template designs can be chosen and used in conjunction to create your individual design. To use the 8mm Router Carver a light duty professional hand router fitted with a 8mm collet is required. The router aperture must be at least 40mm in diameter and have a smooth plunging action. On some routers it may be necessary to slightly file part of the aluminium guide bush fixing tabs on the router base to prevent fouling.

The Cutter

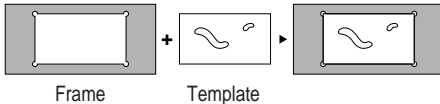
The 8mm Router Carver cutter MK2 consists of a 45° engraving V groove TCT cutter, housed in an aluminium cone shaped bearing guide. The shank is hollow for the cutter adjuster system. A set-up ring is provided to ensure the protrusion is exact and allows adjustment after re-sharpening.



The carvings are routed by the horizontal movement of the router which is guided along the varying slots in the template. The plunge mechanism on the router is kept released allowing the router head to float up and down. The interaction of the slots with the cone, guides the router bit vertically up or down as the slots narrow and widen. Thus the depth and width of the cut is varied to give an authentic carving effect.

Using the Router Carver

- Ensure the cutter tip is flush with the top of the Set-up Ring.
Adjust by loosening the locking nut and turning the cutter in or out as required. (In hard timber it may be necessary to set the cutter for a shallow 1st cut and then set to normal position for final cut). Adjustment may need to be made following re-sharpening.
- Insert $\frac{3}{4}$ of shank of the cutter into the collet and tighten. Release the plunge mechanism of the router allowing free travel along the plunge guides. To ensure a smooth plunging action, keep the guides lubricated with light oil or dry lubricant spray.
- Select the required design templates and corresponding holding frame. Secure the frame to the workpiece by clamping or pinning. Ensure clamps do not interfere with path of router. Pins should be left slightly proud to facilitate easy removal.
- Insert one of the templates into the frame, there may be up to three templates per design.



- Start up the router and position over the widest part of a slot (where possible). Plunge down until the cone shaped guide comes into contact with both edges of the slot, then move to the end of the slot.



IMPORTANT!

By starting at the widest point the risk of the cutter coming into contact and damaging the template is reduced. If a template is inadvertently damaged, it can be repaired by filling and sanding to original shape.

- Make one pass through the entire length of the slot, this removes the bulk of the material, follow up with a finishing pass. Repeat for all slots on the template. Maintain a slight downward pressure on the router as it moves along the slot. The depth and width of the cut will be automatically controlled by the interaction of the template with the cone shaped guide.
- Once all cuts on the first side of the template have been completed, remove and realign the template as shown on the reverse of this leaflet.



IMPORTANT!

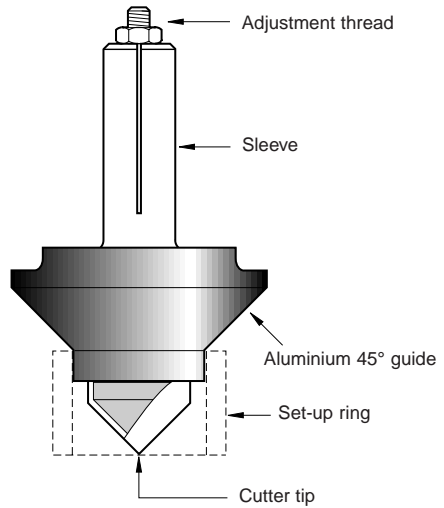
The 8mm Router Carver is not a production tool. Trial cuts should be made on a waste piece of material first. Protective clothing including goggles should always be worn when routing.

The 12mm & 1/2" Shank Router Carver Cutters

These Router Carver cutters consist of a 45° engraving V-groove TCT cutter, housed in an aluminium cone shaped bearing guide. The shank is hollow with an integral cutter adjuster system.

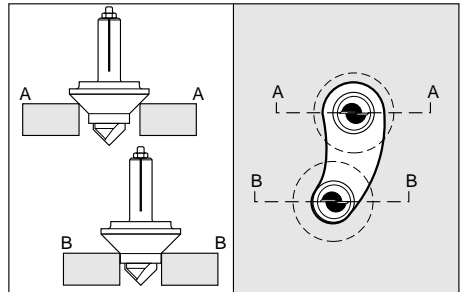
A set-up ring is provided to ensure the protrusion is exact to allow for adjustment after re-sharpening.

The carvings are routed by the horizontal movement of the router which is guided along the varying slots in the template. The plunge mechanism on the router is kept released allowing the router head to float up and down. The interaction of the slots with the cone, guides the router bit vertically up or down as the slots narrow and widen. Thus the depth and width of the cut is varied to give an authentic carving effect.



Using the 12mm & 1/2" Shank Router Carver Cutters

- Ensure the cutter tip is flush with the top of the set-up ring.
Adjust by loosening the locking nut and turning the cutter in or out as required. (In hard timber it may be necessary to set the cutter for a shallow 1st cut and then set to normal position for final cut). Adjustment may need to be made following re-sharpening.
- Insert 3/4 of shank of the cutter into the collet and tighten. Release the plunge mechanism of the router allowing free travel along the plunge guides. To ensure a smooth plunging action, keep the guides lubricated with light oil or dry lubricant spray.
- Select the required design templates and corresponding holding frame. Secure the frame to the workpiece by clamping or pinning. Ensure clamps do not interfere with path of router. Pins should be left slightly proud to facilitate easy removal.
- Insert one of the templates into the frame, there may be up to three templates per design.



- Start up the router and position over the widest part of a slot (where possible). Plunge down until the cone shaped guide comes into contact with both edges of the slot, then move to the end of the slot.



IMPORTANT!

By starting at the widest point the risk of the cutter coming into contact and damaging the template is reduced. If a template is inadvertently damaged, it can be repaired by filling and sanding to original shape.

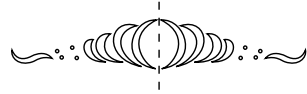
- Make one pass through the entire length of the slot, this removes the bulk of the material, follow up with a finishing pass. Repeat for all slots on the template. Maintain a slight downward pressure on the router as it moves along the slot. The depth and width of the cut will be automatically controlled by the interaction of the template with the cone shaped guide.
- Once all cuts on the first side of the template have been completed, remove and realign the template.

How the Templates Work

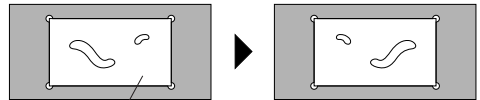
Two Way Symmetrical Designs

After first cuts:

- Invert template
- Complete all cuts
- Repeat procedure for remaining templates in the design.



Handle Surround Design

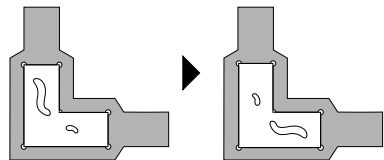


Frame Template

Invert Template



Corner Design



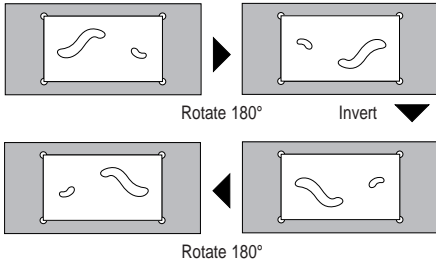
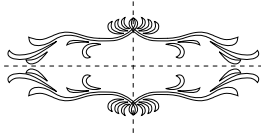
Invert Template

With these designs, each slot is used twice.

Four Way Symmetrical Design

After first cuts:

- a. Rotate template 180°
- b. Complete all cuts
- c. Remove and invert template
- d. Complete all cuts
- e. Remove and rotate template 180°
- f. Complete all cuts
- g. Repeat procedure for remaining templates in the design



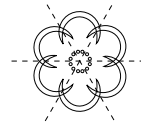
With these designs, each slot is used 4 times.

Six Way Symmetrical Design

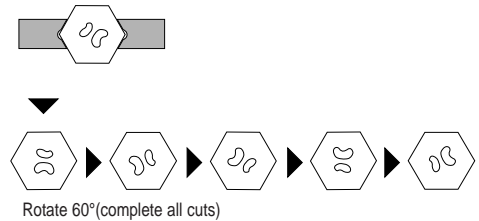
After first cuts:

- a. Rotate template to the next corner, 60°
- b. Complete all cuts
- c. Repeat for all corners on this surface of the template.
- d. Complete all cuts
- e. Invert the template and repeat the entire procedure.

Rosette designs can be used separately or added to some of the other designs.



Large rosette templates can be used in conjunction with panel door and kitchen door frames. Small rosette templates can be used in conjunction with the door rail frame.



Alternatively, the rosettes templates can be used in conjunction with a router carver rosette frame ref. RCF/RS.

With these designs, each slot is used 6 times on each side i.e. each slot is used for 12 cuts.



IMPORTANT!

All templates and frames are manufactured within acceptable tolerances. However, due to the nature of the material, it is possible that there may be some movement of the template within the holding frame. It is therefore advisable to select a corner of the frame as a datum and ensure the template is seated in that corner with each realignment of the template.

It is possible to vary some designs by excluding certain cuts. It will be necessary to perform a trial run to accurately identify the slot(s) which are not required. Slots from different template designs can be chosen and used in conjunction to create an individual design. Slots in the template that appear on the centre line of the design should only be cut once, these are pointed out on the design drawings in this booklet.

Spare Parts for the 8mm Shank Router Carver Cutter Mk2

Spare Parts	Order Ref
Cutter tip with threaded shank	WP-RCC/1B
Aluminium Cone	WP-RCC/2B
Ball bearing	WP-RCC/4B
Circlips	WP-RCC/5B
Nut	WP-RCC/6B
Set-up Ring	WP-RCC/7
8mm Bore Sleeve	WP-RCC/10

Spare Parts for the 12mm & 1/2" Shank Router Carver Cutters

Spare Parts	Order Ref
Cutter tip with threaded shank	WP-RCC/1
Aluminium Cone	WP-RCC/2
Shank Sleeve 1/2"	WP-RCC/3
Shank sleeve 12mm	WP-RCC/8
Ball bearing	WP-RCC/4
Circlips (2 sizes)	WP-RCC/5
Nut & Screw 8mm A/F	WP-RCC/6
Set-Up Ring	WP-RCC/7

Recycling

- Jig, accessories and packaging should be sorted for environmentally friendly recycling.

DESIGNS

Panel Door Design

Classical – Large Panel

Ref. RCT/LP/C

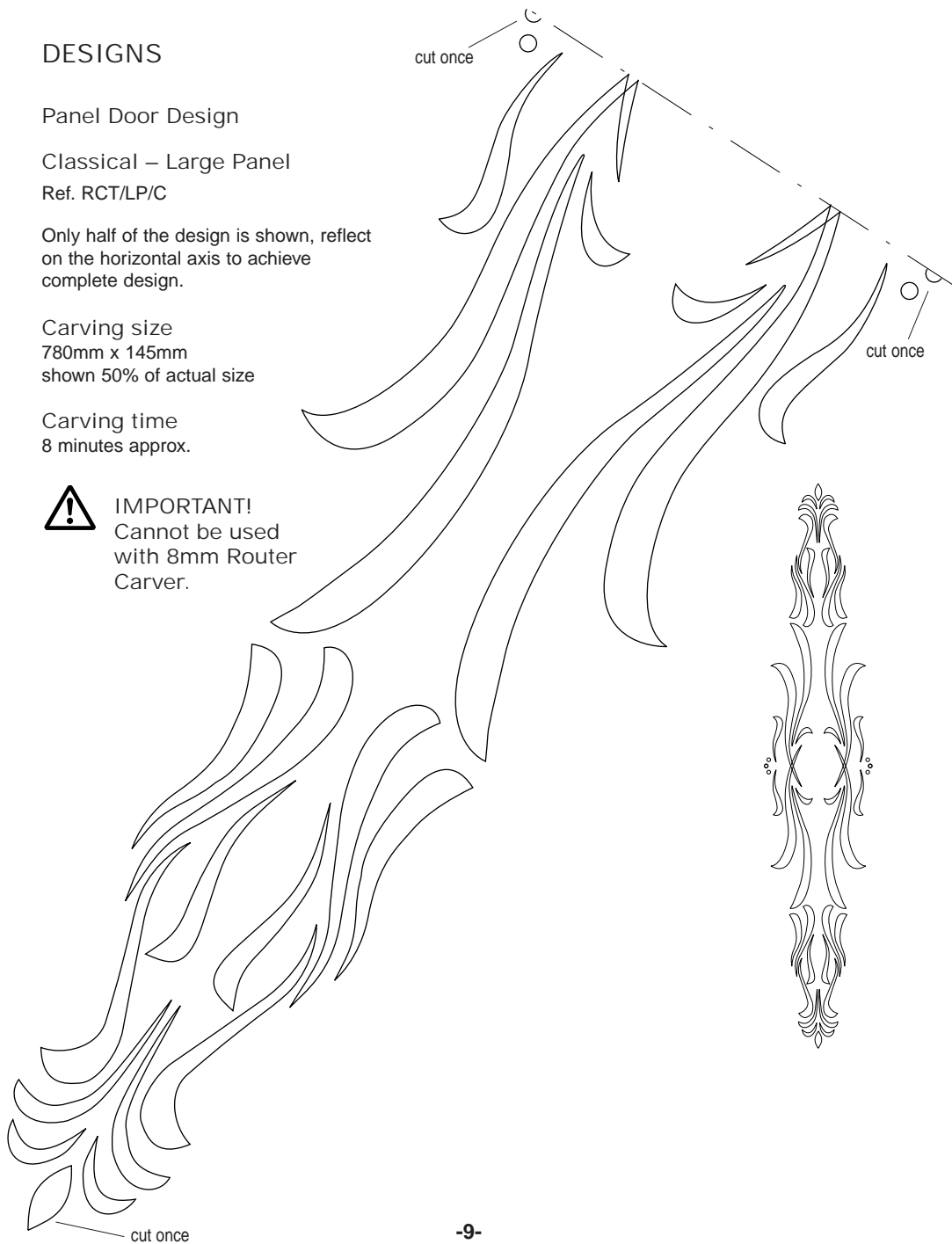
Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
780mm x 145mm
shown 50% of actual size

Carving time
8 minutes approx.



IMPORTANT!
Cannot be used
with 8mm Router
Carver.



Panel Door Design

Classical – Small Panel

Ref. RCT/SP/C

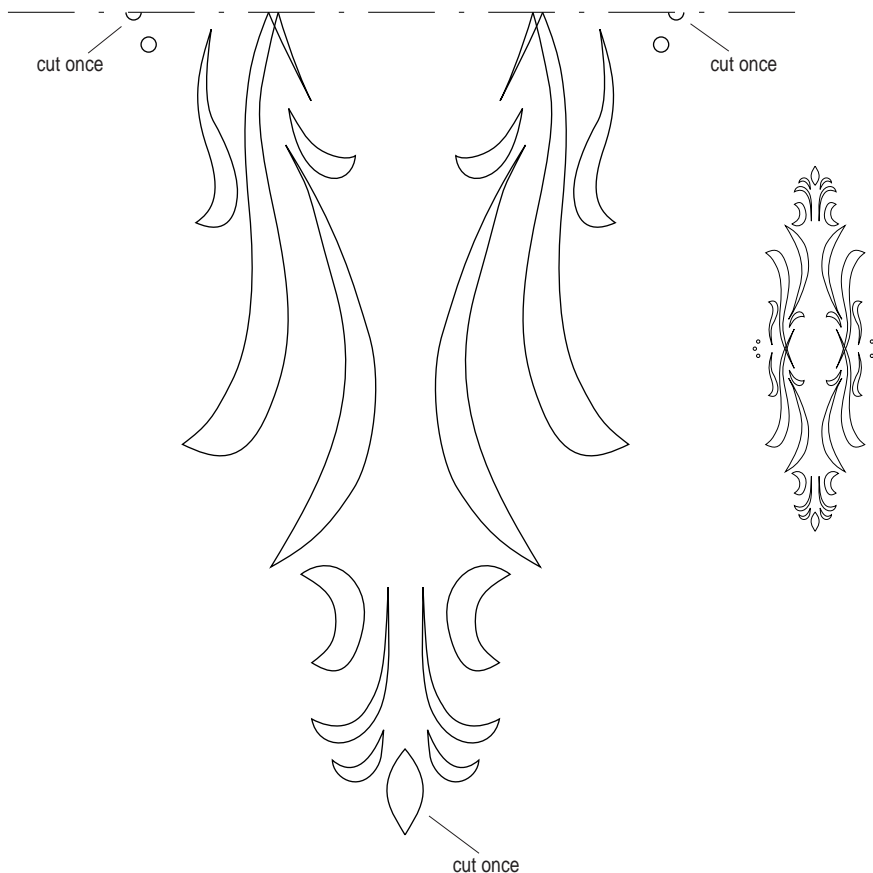
Carving size
435mm x 150mm
shown 50% of actual size

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving time
5 minutes approx.



IMPORTANT!
Cannot be used with
8mm Router Carver.



Panel Door Design

Royal – Large Panel

Ref. RCT/LP/R

Only half of the design is shown, reflect
on the horizontal axis to achieve
complete design.

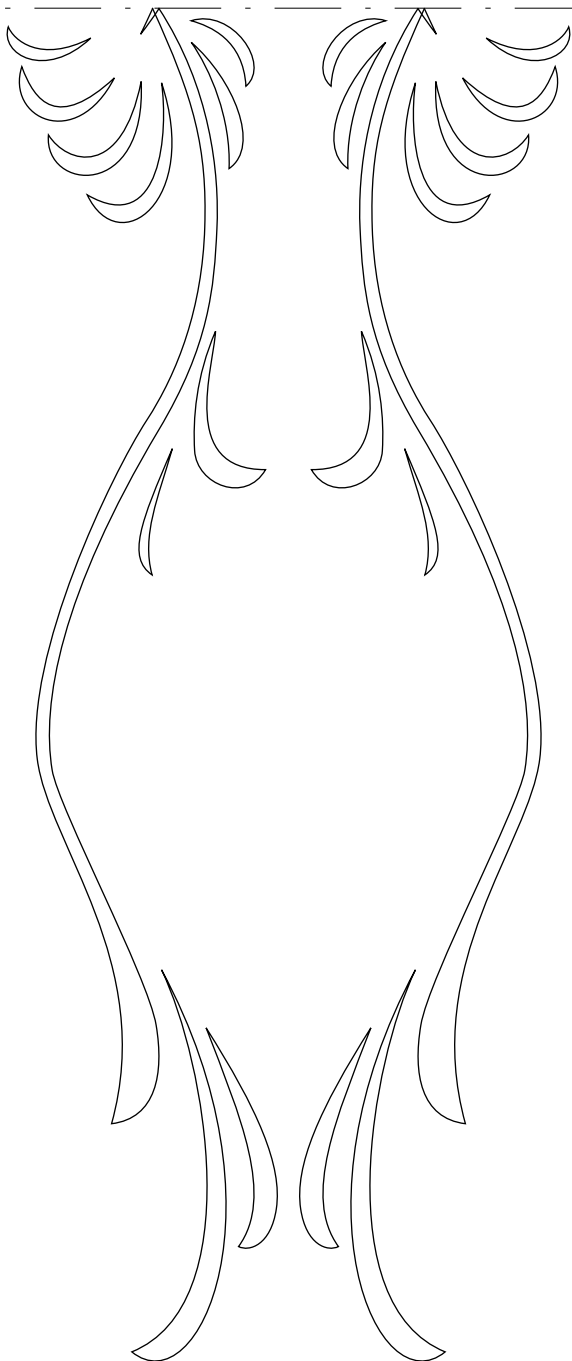
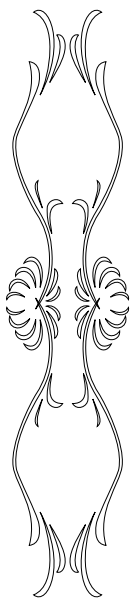
Carving size

715mm x 150mm

shown 50% of actual size

Carving time

8 minutes approx.



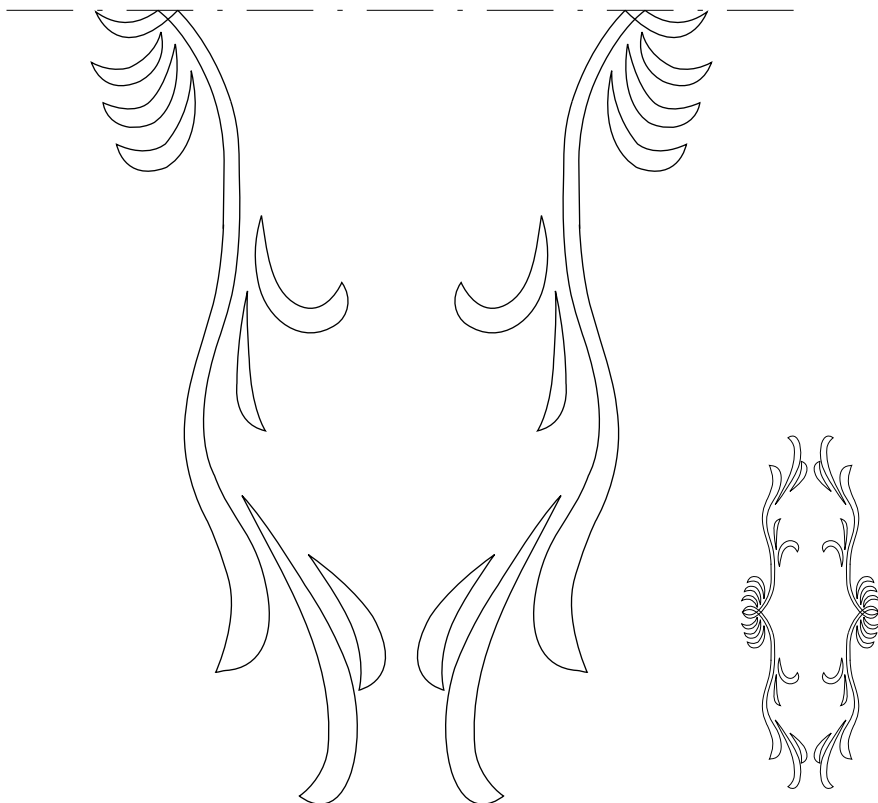
Panel Door Design

Royal – Small Panel
Ref. RCT/SP/R

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
420mm x 160mm
shown 50% of actual size

Carving time
5 minutes approx.



Kitchen Door Design

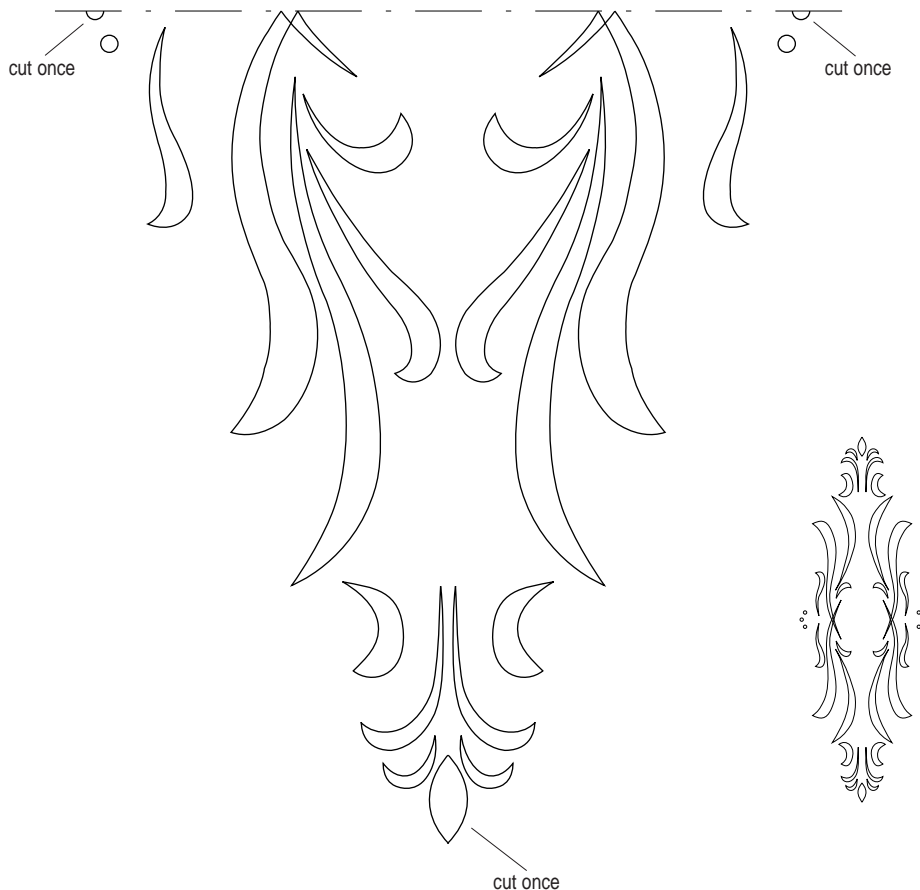
Classical

Ref. RCT/KD/C

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
440mm x 185mm
shown 50% of actual size

Carving time
5 minutes approx.



Kitchen Door Design

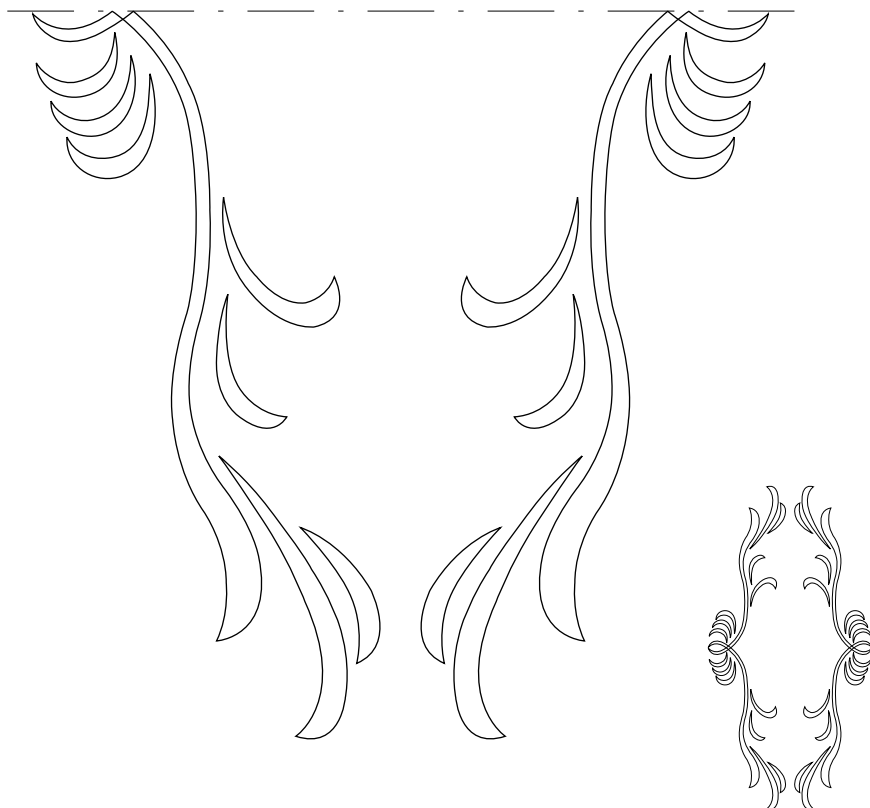
Royal

Ref. RCT/KD/R

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
385mm x 190mm
shown 50% of actual size

Carving time
5 minutes approx.



Kitchen Door Design

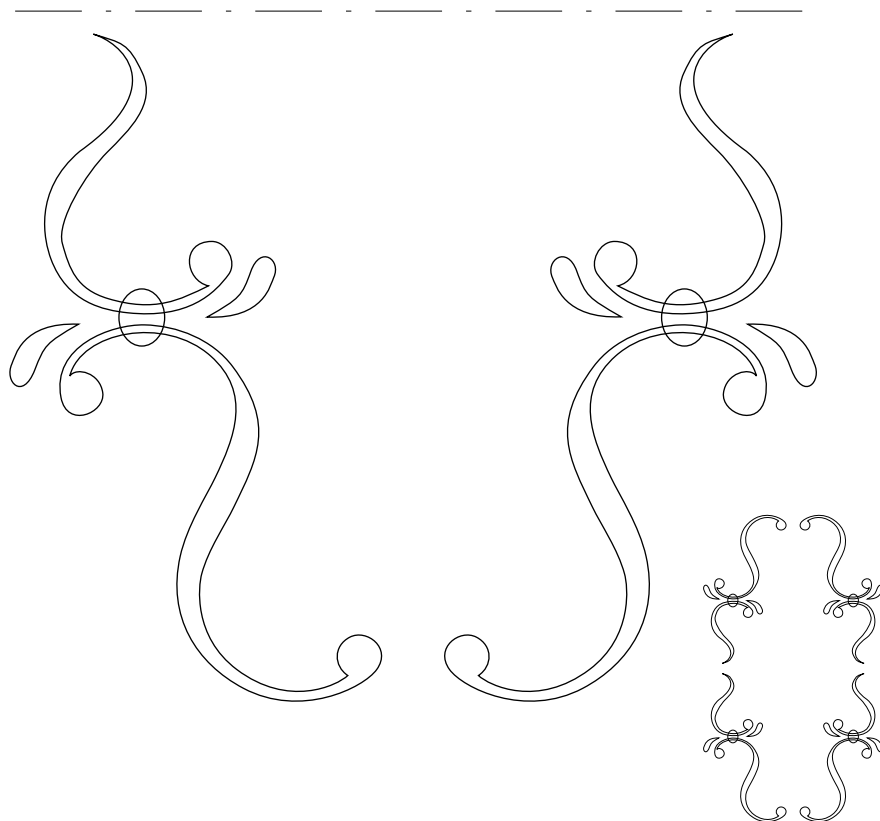
Cascade

Ref. RCT/KD/CC

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
365mm x 210mm
shown 50% of actual size

Carving time
5 minutes approx.



Kitchen Door Design

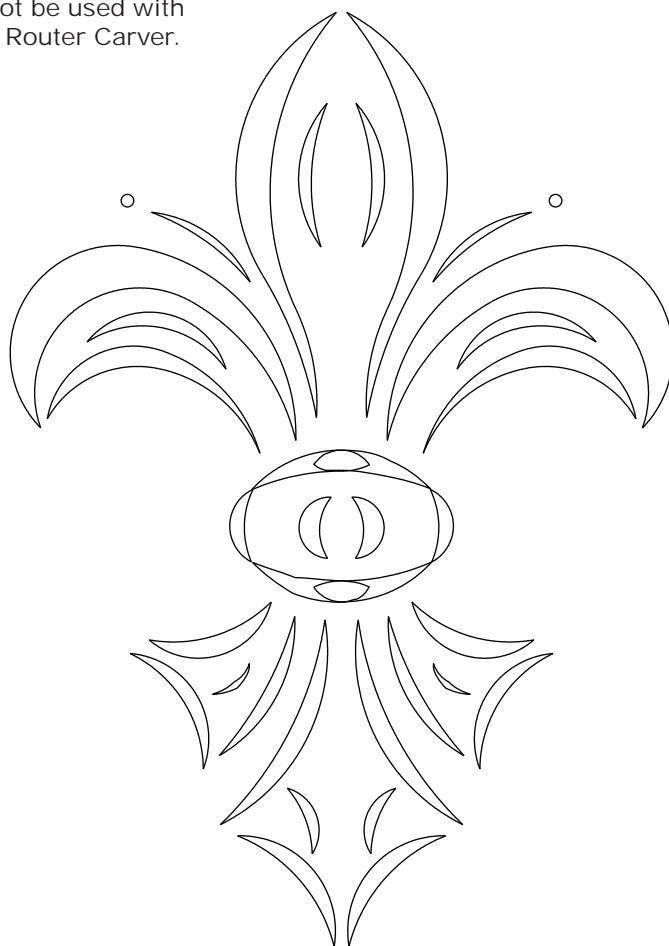
Fleur de Lys
Ref. RCT/KD/FD

Carving size
250mm x 180mm
shown 50% of actual size

Carving time
6 minutes approx.



IMPORTANT!
Cannot be used with
8mm Router Carver.



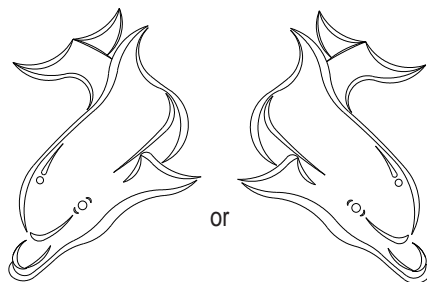
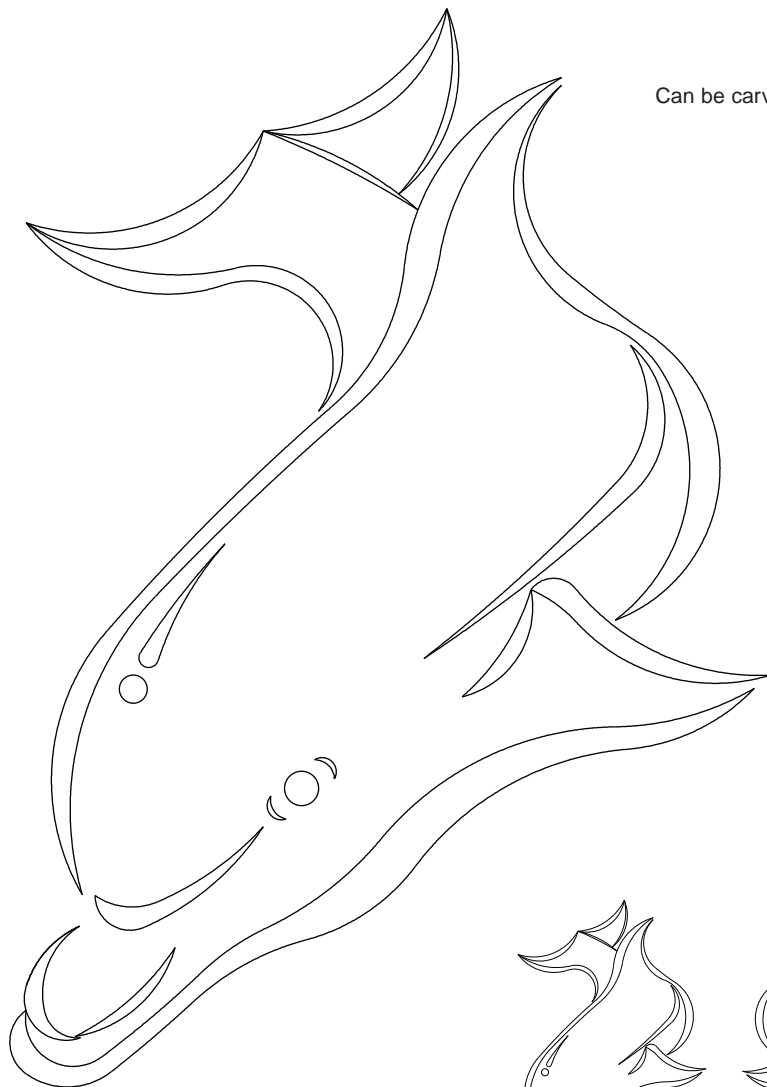
Kitchen Door Design

Dolphin

Ref. RCT/KD/DO

Carving size
290mm x 200mm
shown 50% of actual size

Carving time
4 minutes approx.
Can be carved left or right hand



Kitchen Door Design

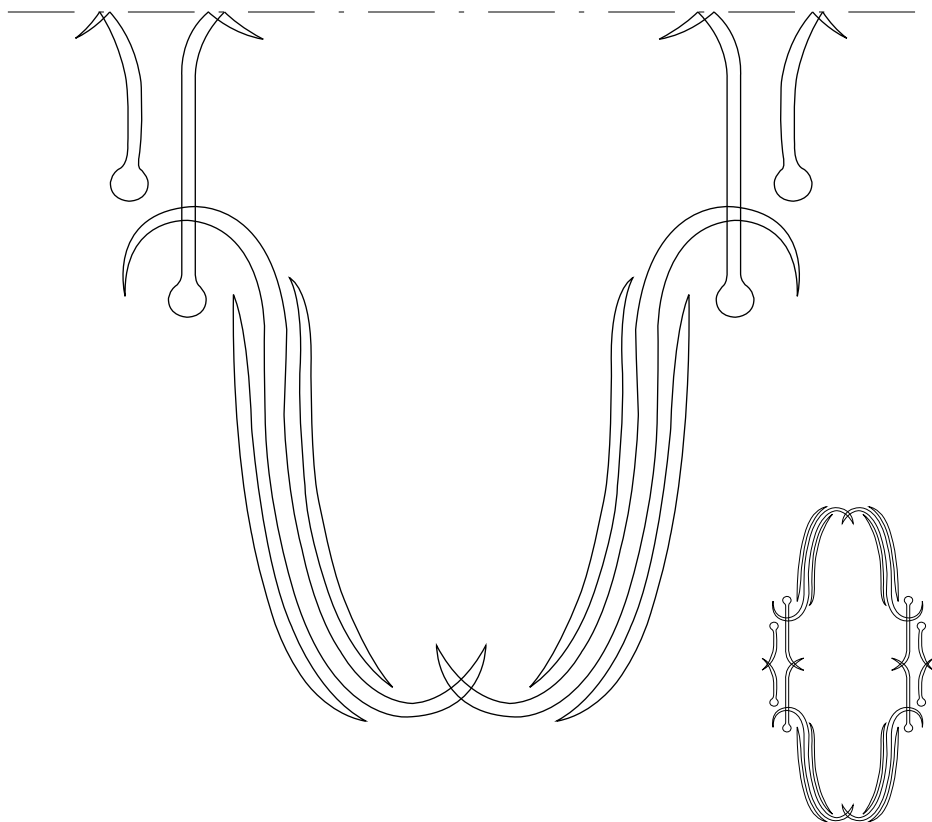
Roma

Ref. RCT/KD/RM

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
375mm x 200mm
shown 50% of actual size

Carving time
5 minutes approx.



Corner Designs

Classical

Ref. RCT/CD/C

Carving size
155mm x 40mm
shown 50% of actual size

Carving time
3 minutes approx.

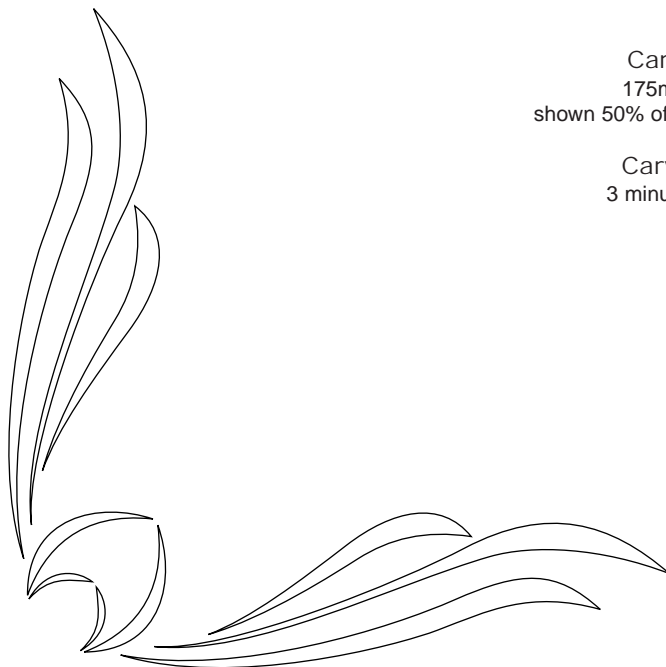


Royal

Ref. RCT/CD/R

Carving size
175mm x 40mm
shown 50% of actual size

Carving time
3 minutes approx.



Corner Designs

Cascade

Ref. RCT/CD/CC



Carving size
190mm x 40mm
shown 50% of actual size

Carving time
3 minutes approx.

Florentine

Ref. RCT/CD/FL



Carving size
120mm x 30mm
shown 50% of actual size

Carving time
3 minutes approx.

Corner Design

Folklore

Ref. RCT/CD/FK

Carving size
150mm x 45mm
shown 50% of actual size

Carving time
3 minutes approx.



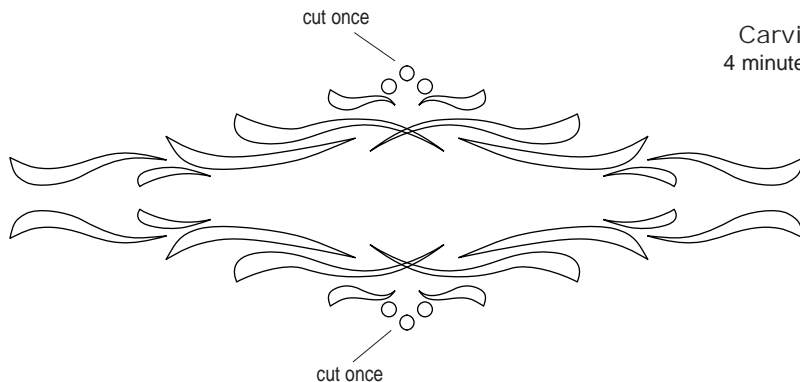
Handle Surround Design

Classical

Ref. RCT/HS/C

Carving size
210mm x 70mm
shown 50% of actual size

Carving time
4 minutes approx.

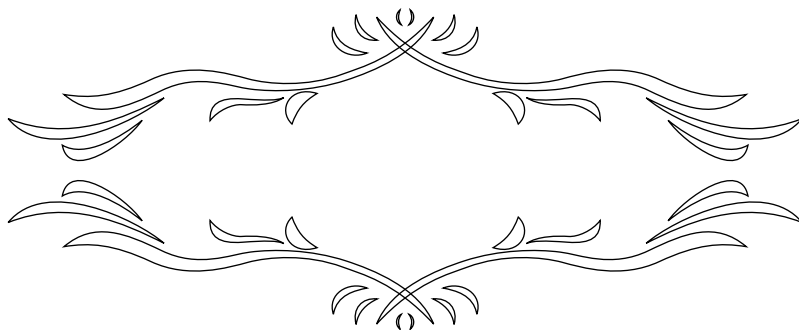


Handle Surround Designs

Royal
Ref. RCT/HS/R

Carving size
210mm x 80mm
shown 50% of actual size

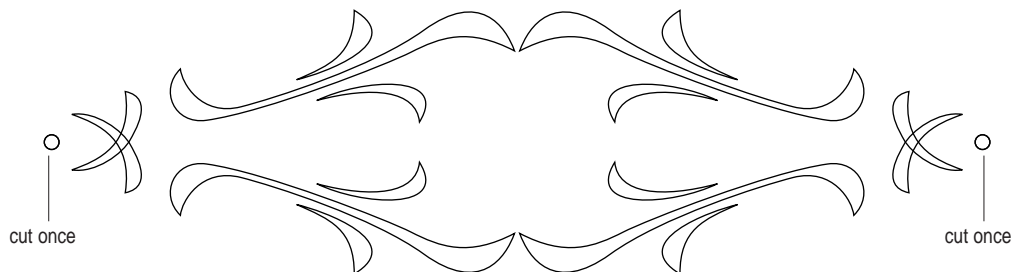
Carving time
4 minutes approx.



Cascade
Ref. RCT/HS/CC

Carving size
250mm x 65mm
shown 50% of actual size

Carving time
4 minutes approx.



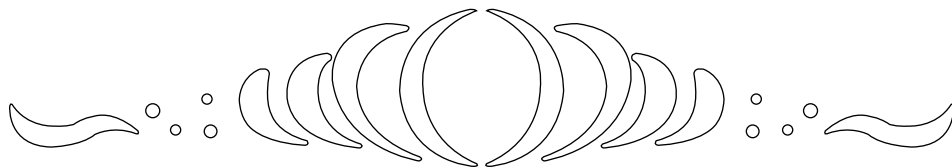
Handle Surround Designs

Folklore

Ref. RCT/HS/FK

Carving size
251mm x 40mm
shown 50% of actual size

Carving time
4 minutes approx.

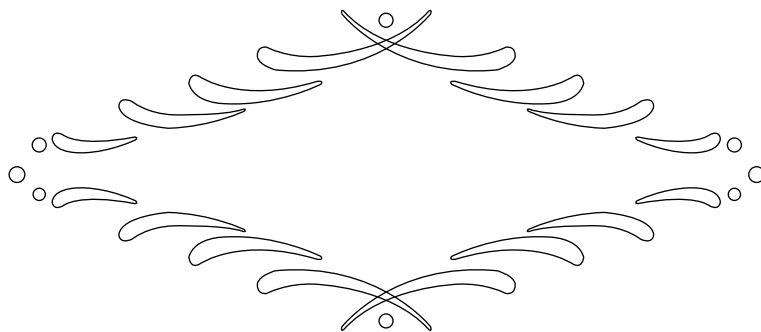


Florentine

Ref. RCT/HS/FL

Carving size
195mm x 85mm
shown 50% of actual size

Carving time
4 minutes approx.

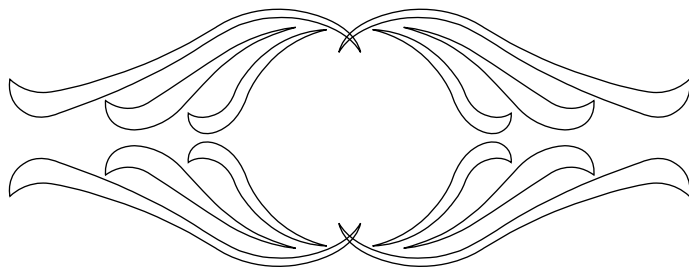


Handle Surround Designs

Luxury
Ref. RCT/HS/L

Carving size
180mm x 70mm
shown 50% of actual size

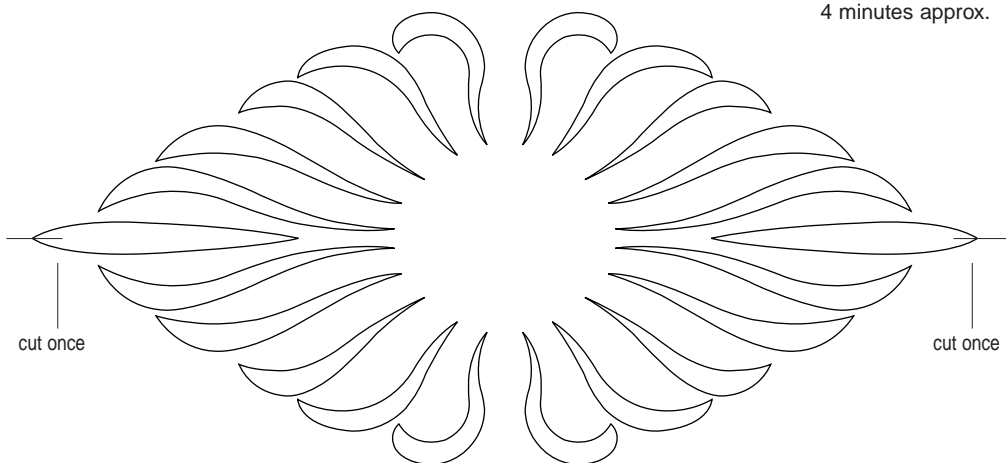
Carving time
4 minutes approx.



Blaze
Ref. RCT/HS/B

Carving size
250mm x 110mm
shown 50% of actual size

Carving time
4 minutes approx.



Door Rail Design

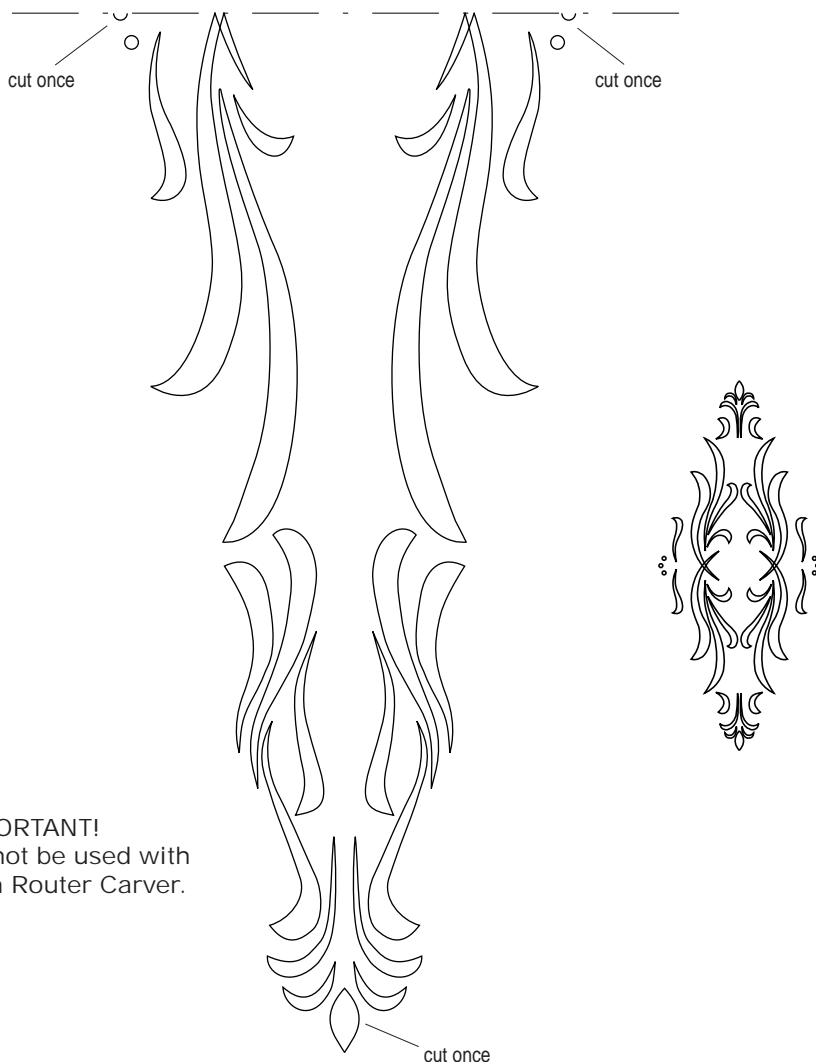
Classical

Ref. RCT/DR/C

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
550mm x 120mm
shown 50% of actual size

Carving time
6 minutes approx.



IMPORTANT!
Cannot be used with
8mm Router Carver.

Door Rail Design

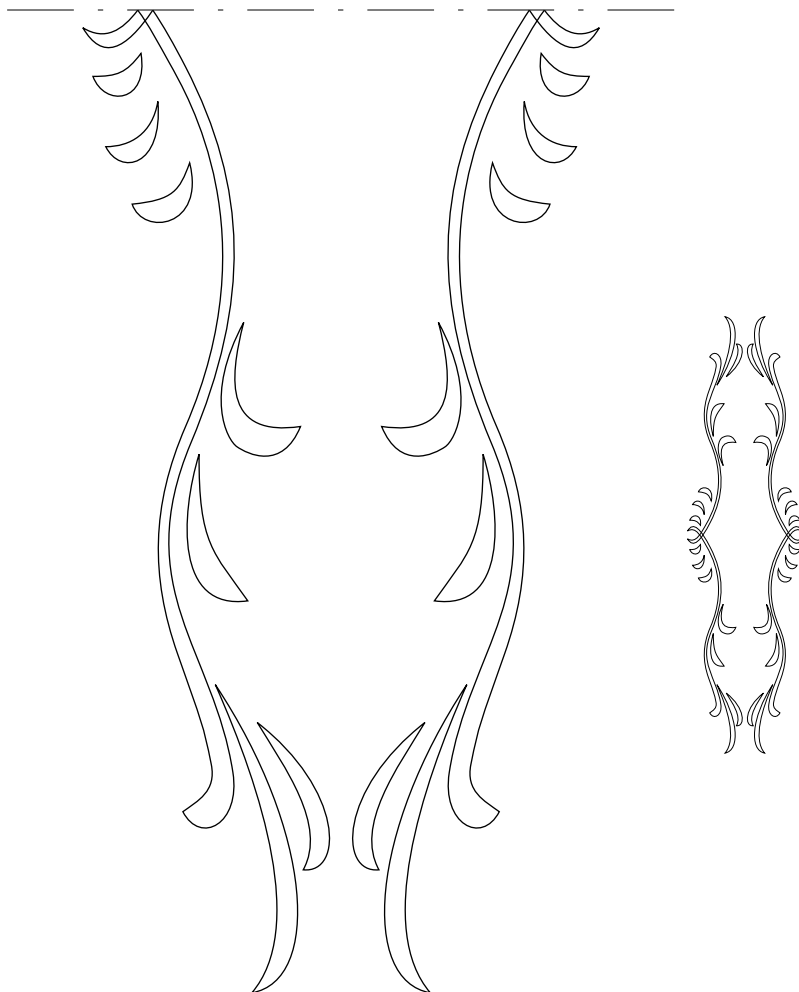
Royal

Ref. RCT/DR/R

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
520mm x 135mm
shown 50% of actual size

Carving time
6 minutes approx.



Door Rail Design

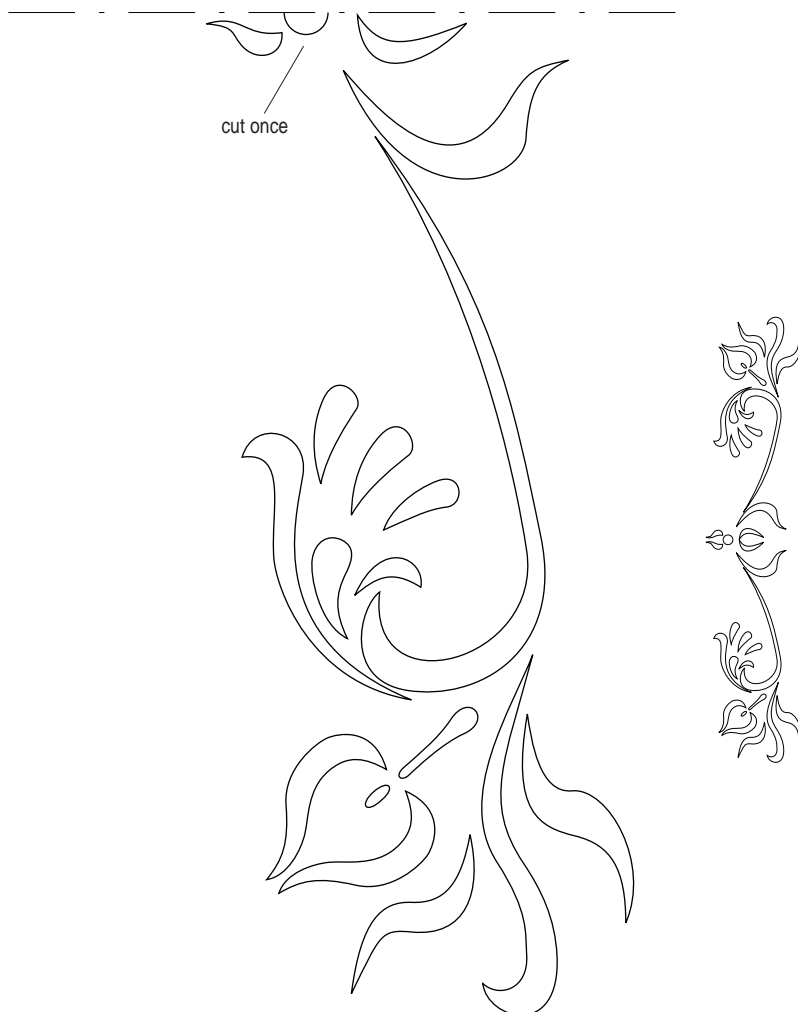
Cascade

Ref. RCT/DR/CC

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
530mm x 110mm
shown 50% of actual size

Carving time
6 minutes approx.



Door Rail Design

Folklore

Ref. RCT/DR/FK

Only half of the design is shown, reflect on the horizontal axis to achieve complete design.

Carving size
550mm x 110mm
shown 50% of actual size

Carving time
6 minutes approx.

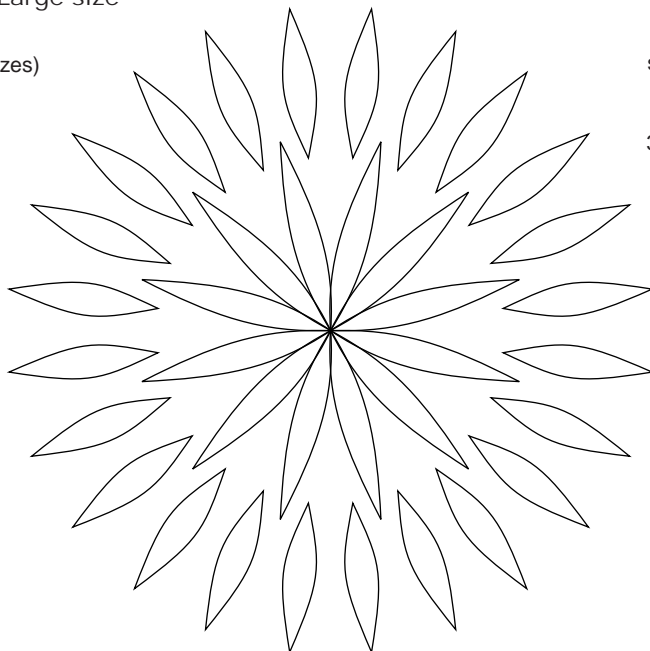


Rosette Design

Sunflower – Large size

Ref. RCT/RS/S

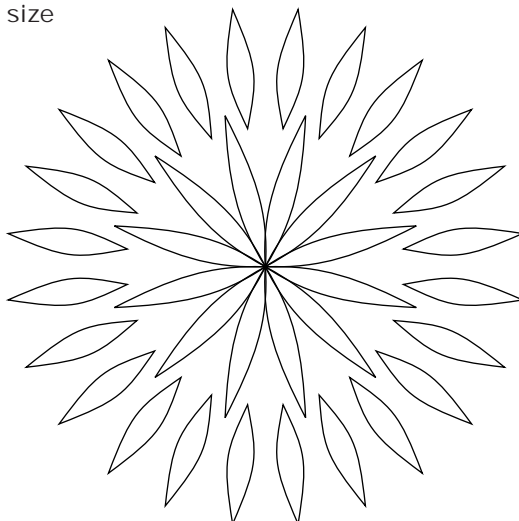
(includes both sizes)



Carving size
85mm diameter
shown actual size

Carving time
3 minutes approx.

Sunflower – Small size



Carving size
68mm diameter
shown actual size

Carving time
3 minutes approx.

Rosette Design

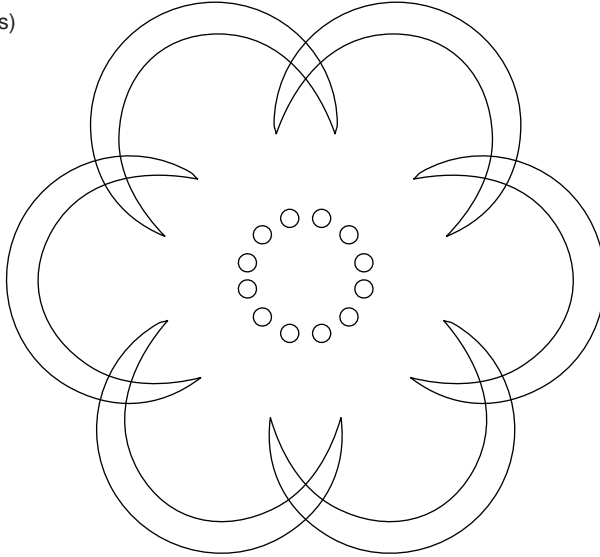
Rosepetal – Large size

Ref. RCT/RS/R

(includes both sizes)

Carving size
79mm diameter
shown actual size

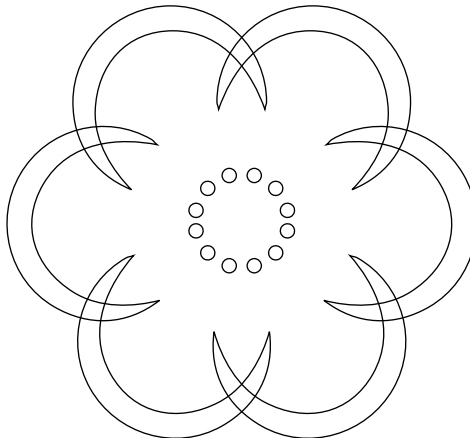
Carving time
3 minutes approx.



Rosepetal – Small size

Carving size
62mm diameter
shown actual size

Carving time
3 minutes approx.



Recycling

- Jig, accessories and packaging should be sorted for environmentally friendly recycling.