



# 2005 Club Project – Turning Boxes

## Sequence Check Sheet

Chet Bisno March 20, 2005

### 1. Box Considerations:

a. Wood selection - consider end use for:

4. Box size,
5. Top/bottom proportions
6. Shape

Straight grain will enhance grain match between the box bottom and top.

b. Turn a cylinder that is slightly larger in diameter than finished product, cut a tenon at both cylinder ends, mark the box with allowances for the material lost when bottom is parted off and overlapped at the joint. Boxtop should be at headstock end of cylinder.

### 2. Boxtop

- a. Install cylinder with box top end in scroll chuck and part off bottom. Set bottom aside.
- b. Drill gauge hole to desired depth.
- c. Mark Wall thickness.
- d. Hollow top to thick wall.
- e. Cut flange recess into top.
- f. Smooth inside.
- g. Refine lip bottom edge with slight slope to insure hairline interface between top and bottom. 'May be unnecessary if using a groove or bead.
- h. Finish interior all the way out to flange top edge. Once it is parted from the stub, any inside access is difficult and will require a jamb chuck.

### 3. Box Bottom

- a. Fix box bottom into scroll chuck.
- b. Drill "gauge" hole to mark box depth.
- c. Fit top and bottom. Cut box bottom flange that will insert into boxtop. Use the top as a gauge for a snug fit. If too snug it can be loosened later. The fit must be very snug at this point to hold the top while finishing the box exterior and top surface. Insure base flange length is shorter than top recess so boxtop and bottom will show only a hairline contact. After fitting remove box top and set aside.
- d. Hollow box bottom.



- e. Refine box bottom shoulder edge with slight slope to insure hairline interface between top and bottom. This step may be unnecessary if using a groove at the interface.
- f. Finish box bottom interior.

#### **4. Box completion**

- a. Fit boxtop to box bottom to turn full length of box exterior. Must be snug – use papertowl to tighten loose fit. Use tailstock where possible.
- b. Turn the box exterior and boxtop surfaces.
- c. Finish box exterior, except bottom of base that is in the scrollchuck.
- d. Check fit between top and bottom for ease of top removal.
- e. Create jam chuck to secure base flange so bottom surface can be turned smooth.
- f. Turn bottom smooth with slight recess to insure box sits flat.
- g. Sign, date, and finish bottom.

## Woodturning Boxes - Reference List

### Books dedicated to woodturning boxes:

#### **Turning Boxes: *Raffan, Richard***

In this completely revised and updated version, woodworkers have the opportunity to learn from the world's best know turning teacher. Provided is detailed information on all aspects of turning boxes, from cutting and seasoning, to finishing. **154pp, ISBN 1-56158-224-7**

or

Richard Raffan's Turning Guide: Turning Wood, Turning Boxes, and Turning Bowls  
(Three Books, Boxed Set) Amazon .com, **List Price 59.95, Amazon sale price \$37.77**

#### **Turned Boxes: *Stott, Chris***

The 50 projects in this book will appeal to any turners who have mastered the basics of the craft and are looking for creative ideas to expand their range and develop their abilities. Further inspiration is provided by a gallery of work by other leading turners. \$19.95, **180pp, ISBN 1-86108-203-7, \$19.95**

#### **Turning Humidors: *Sing, Dick***

In this book you will be provided with detailed instructions on the design, turning, and finishing of the distinctive humidor. Helpful hints and practical advice useful to woodturners of all skill levels are provided. \$14.95, **64pp ISBN 0-7643-1462-9**

#### **Turning Threaded Boxes: *Swanson, John***

In this book, John takes the reader through every step necessary to create beautiful turned wooden boxes with threaded lids. Accompanying the precise and detailed text are over 250 beautiful color photographs. **64pp, \$14.95, ISBN 0-7643-0743-6**

### Books that partially address woodturning boxes:

#### **Woodturning Forms and Materials: *Hunnex, John***

Hunnex provides a storehouse of images from which turns of all abilities can draw inspiration. The emphasis throughout is on graceful, well proportioned forms and on the sympathetic use of a wide range of materials. More than 100 pieces are described and illustrated and grouped in ten basic themes. **\$19.95, 144pp ISBN 1-86108-355-6**

#### **Woodturning Projects: *Workshop Guide To Shapes: Baker, Mark***

This book explores the myriad shapes that can be used by turners, and the wide variety of woods which can be used to create them. Dimensioned drawings are supplied for every project with variations giving a total of 100 designs. **\$19.95, 192pp ISBN 1-86108-391-2**

#### **Masterful Woodturning: *Roberts, S. Gary***



Here is the encouragement, inspiration, and projects you need to move beyond the basics and become an accomplished precise woodturner. Roberts shares his expertise with you so that you can hone your talents. Develop the expertise at turning you always knew you could to achieve your potential in the shop. **\$19.95, 160pp ISBN 0-8069-8709-X**

**Woodturning with Ray Allen: Ray Allen**

The ultimate guide for anyone interested in segmented turning. Ray provides a thorough look at his specific techniques and beautiful work. Learn the proper Tools and Equipment; How to Draw Blueprints to create your design, and then detailed turning techniques including photos and instructions for over 95 individual steps. The Gallery is filled with ideas in beautiful color and finally, see Rays, plans and designs segments for recreate his or create your own. **\$24.95, 138pp ISBN 1-56523-217-8**

**Mini Lathe Magic: Big Projects from Small Lathe: Hampton, Ron**

With 355 color photographs and a thorough text, Rom Hampton takes you through every step necessary to create beautifully turned objects in both wood and stone on a small lathe. \$14.95, **80pp ISBN 0-7643-1614-1**

**Useful Beauty: Turning Practical Items on Wood Lathe: Sing, Dick**

Projects included in this book focus on making the ordinary extraordinary. All from them require little time to turn and can be made from small pieces of wood - even from left over scraps. \$12.95, **64pp ISBN 0-88740-851-6**

**Woodturning Design: Darlow, Mike**

This book is an essential aid whether you want to design turned art or favor traditional styles. Using incisive text and 540 color illustrations, it thoroughly explains the designs process, and presents a lot of wood turning knowledge. **\$34.95, 271pp ISBN 1-56523-196-1**

**Woodturning boxes - Videos**

**Inlaid & Novelty Boxes**, Turned boxes have long been regarded as a measure of a turner's skill. Learn which tools to use and how to use them correctly, and make a range of beautiful boxes. 78 minutes, **\$45.50, ISBN 1 86108 265 7**

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**Turning Boxes, Stott, Chris**, Turn and finish three classic boxes under Chris's precise instruction, **\$45.50, 70 minutes, ISBN 1 86108 027 1**

**Boxes, Goblets and Screw Threads**, White, Dennis, - Turning the traditional way, including hand chasing screw threads for the more experienced turner. **\$35.00, 87 minutes, ISBN 0 946819 62 9**